

AAPM Spring Clinical Meeting Calendar of Events

JOURNAL OF APPLIED CLINICAL
MEDICAL PHYSICS

Program of the Meeting

*Presenting Author

Saturday, March 26, 2022

Best Poster Competition

-Exhibit Hall

PO-BPC-Exhibit Hall-01 Dose Reduction of Multiple Myeloma Protocol in Dual-Energy Computed Tomography Using Image-Based Noise Addition Software - N. Alsaihati *, J. Solomon, E. Mccrum, E. Samei

PO-BPC-Exhibit Hall-02 Dose to Fetus From PET/CT Scans - C. Burton *

PO-BPC-Exhibit Hall-03 Implementing QATrack+ QC Database for Report Generation and Data Analysis - M. Yang *, I. Rutel

PO-BPC-Exhibit Hall-04 Variation in Measurements Between Calibrated Photometers for Mammography Diagnostic Workstation Monitors - A. Shankar *, M. Akerele, S. Leon

PO-BPC-Exhibit Hall-05 Evaluation of Radiation Attenuating Drape - T. Thompson *, D. Hohreiter

PO-BPC-Exhibit Hall-06 Characterization of the Automated Tube-Current Modulation in a Dual-Source CT Scanner for Gated ECG Imaging of the Heart - R. Perez Franco *, M. Hoerner

PO-BPC-Exhibit Hall-07 Direct Dose Measurements Comparing Single-Energy and Dual-Energy Head CT Scans - N. Correa *, I. Barreto, M. Glassell, C. Schaeffer, M. Arreola

PO-BPC-Exhibit Hall-08 Contrast Thresholds for Detection of Low Iodine Concentrations In Subtraction CT and Dual Energy CTSystems - A. Heshmat *, I. Barreto, L. Rill, M. Arreola

PO-BPC-Exhibit Hall-09 Evaluating the Sensitivity of Deep Learning Based Auto-Segmentation to Image Features in Thoracic Segmentation - W. Zhu *, Y. Sheng, Q. Chen, X. Li, D. Carpenter, C. Champ, H. Stephens, Q. Wu, A. Diaz, X. Feng, Q. Wu

PO-BPC-Exhibit Hall-10 Development of An Algorithm to Detect and Quantify CT Motion Artifacts - M. Khandekar *, J. Solomon, E. Samei

PO-BPC-Exhibit Hall-11 Plan Quality and Isotoxic Dose Escalation Investigation Using a 0.35T MR-Linac System in Ablative 5-Fraction Stereotactic Magnetic Resonance-Guided Radiation Therapy for Primary Pancreatic Cancer - R. Hawranko *, K. Neiderer, C. Guy, E. Bump, A. Watson, L. Yuan, T. Harris, E. Fields, E. Weiss, W. Song

PO-BPC-Exhibit Hall-12 Clinical Commissioning and Implementation of An In-House Artificial Intelligence (AI) Tool for Automatic Head-And-Neck Intensity Modulated Radiation Therapy (IMRT) Treatment Planning - X. Li *, Y. Sheng, Q. Wu, Y. Ge, C. Wang, D. Brizel, Y. Mowery, J. Lee, W. Wang, H. Stephens, F. Yin, Q. Wu

PO-BPC-Exhibit Hall-13 In-Phantom Film Measurements of Two Treatment Planning Systems for Single-Fraction Spine SBRT - M. Taylor *, J. Fontenot

PO-BPC-Exhibit Hall-14 A Fully-Automated Field-In-Field Algorithm for Rectal Cancer - K. Huang *, P. Das, D. Fuentes, A. Olanrewaju, D. Hancock, D. Rhee, L. Court

PO-BPC-Exhibit Hall-15 In Vivo Cherenkov Imaging Monitors FLASH RT - M. Rahman *, M. Ashraf, R. Zhang, X. Cao, D. Gladstone, L. Jarvis, J. Hoopes, B. Pogue, P. Bruza

PO-BPC-Exhibit Hall-16 Dosimetric and Clinical Advantages of 3D Conformal Helical Tomotherapy Over the Direct Tomotherapy Box Field Technique for Cervical Cancer - R. Subramani *, J. Amalraj, P. Anchineyan, S. Anchiyam, D. Adulkar, B. Patneedi, K. Arumugam

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PO-BPC-Exhibit Hall-17 Analysis of a Surface Imaging System Using a Six Degree of Freedom Couch for Setting Stereotactic Radiosurgery Treatment Action Level - X. Zhao *, E. Covington, R. Popple

PO-BPC-Exhibit Hall-18 Integration of Automation into An Existing Clinical Workflow to Improve Efficiency and Reduce Errors in the Treatment Planning Process for Electron Radiation Therapy - M. Coyne *, Q. Diot, R. Lanning, A. Mahl, L. Schubert, K. Stuhr, J. Backus, S. Stoehr, M. Miften, D. Thomas

PO-BPC-Exhibit Hall-19 Results of Using an Automated Tool for the Verification of TPS and OIS Database Consistency Following Treatment Plan Transfer - W. Donahue *, E. Draeger, D. Han, Z. Chen

PO-BPC-Exhibit Hall-20 Experimental Determination of In-Water Relative Dose Distribution for a Novel Y-90 Disc Source with 3D-Printed Film Dosimetry Tools - L. Huang *, X. Chang, J. Liu, J. Chang, Y. Cao

PO-BPC-Exhibit Hall-21 A New Clinical Workflow for Dose Accumulation of Spine SBRT in RayStation - M. Vaccarelli *, E. Han, S. Svensson

PO-BPC-Exhibit Hall-22 High-Intensity Laser Therapy (HILT) and Its Impact on Quality of Life, Opioid Requirements and Pain for Patients with Refractory Chemotherapy-Induced Peripheral Neuropathy, a Case Series - M. Ostrowski *, H. Jefferies, M. Chung, C. Roldan, B. Huh

PO-BPC-Exhibit Hall-23 Development and Implementation of a Novel 3D Printed Patient-Specific Cerrobend Mould Workflow - A. Jaffe *, J. Anderson

PO-BPC-Exhibit Hall-24 Feasibility of Utilizing Spot-Scanning Proton Arc (SPArc) for Whole Lung Irradiation and Mitigate the Breathing-Induced Interplay Effect - L. Zhao, G. Liu, A. Qin, D. Yan, X. Li, C. Stevens, R. Deraniyagala, X. Ding *

PO-BPC-Exhibit Hall-25 Identification of Ferromagnetic Materials of Medical Devices in Patients by Using Dual Energy CT - Y. Lu *, D. Ragan, M. Bhalla, B. Barnes, T. Crawford, Y. Liu

PO-BPC-Exhibit Hall-26 Annihilation Gamma-Ray Interference In Tc-99m Clinical Images: Energy Spectrum Softening Due To Lead Shielding - D. Vergara *

PO-BPC-Exhibit Hall-27 Validating Water-Equivalent Diameter from CT Localizers - C. Burton *

PO-BPC-Exhibit Hall-28 CTDIvol in Wide-Beam Dual-Energy CT Scanners - N. Correa *, I. Barreto, M. Arreola

PO-BPC-Exhibit Hall-29 MP Reports+: Database Information Extraction and Spreadsheet Reporting Tool - I. Rutel *, J. Box, M. Yang

PO-BPC-Exhibit Hall-30 First Time Implementation of a Physics Ultrasound (US) Testing Program: Analysis and New Lessons - K. Stiles *, R. Makkia, D. Vergara, A. Dohatcu

PO-BPC-Exhibit Hall-31 Dosimetric Evaluation and Comparison of Brainlab Elements Version 2.0 and 3.0 - G. Baltz *, R. Seier, S. Kirsner

PO-BPC-Exhibit Hall-32 A Highly-Efficient Planning and Delivery Method for Proton Spatially Fractionated Radiation Therapy - J. Yu *, A. Wroe, R. Kotecha, A. Gutierrez

PO-BPC-Exhibit Hall-33 Dosimetric Impact of CT Artifacts for Spine SBRT - M. Bussiere *, T. Botticello, J. Daly, A. Schwartz, K. Oh, J. Daartz

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PO-BPC-Exhibit Hall-34 Switching from Type B to Type C Dose Calculation Algorithm: Maintaining Treatment Planning Continuity in Head and Neck Treatments - V. Feygelman *, K. Latifi, M. Bowers, K. Greco, E. Moros, M. Isacson, A. Angerud, J. Caudell

PO-BPC-Exhibit Hall-35 Intensity Modulation in Electron UHDR FLASH Radiotherapy - M. Rahman *, K. Erhart, D. Gladstone, P. Bruza, L. Jarvis, B. Pogue, J. Hoopes, R. Zhang

PO-BPC-Exhibit Hall-36 Off-Axis Validation of a Beam Model Used for Single-Isocenter Multiple Metastasis Stereotactic Radiosurgery Treatment - P. Dupre *, K. Wilson, S. Benhabib, M. Joo, Q. Xu, K. Huynh, W. Nie, J. Fan

PO-BPC-Exhibit Hall-37 Evaluation of Siemens SOMATOM CT-Simulator Reconstruction Space and Correlation of Physical and Clinical Image Quality - P. Patel, P. Patel *, D. Olek, E. Butler, R. Pino

PO-BPC-Exhibit Hall-38 Auto Analysis Commissioning on EPID Image Based Winston Lutz Tests - J. Xu *, C. Kalavagunta, J. Xu

PO-BPC-Exhibit Hall-39 An Algorithm to Select the Optimal Combination of Dual Energy CT Images to Improve Target and Organs at Risk Visualization - N. Thorne *, E. Izaguirre

PO-BPC-Exhibit Hall-40 Combining VMAT and Multi-Scan CBCT Technique for Craniospinal Irradiation on a Conventional Linac - F. Clemente-gutiérrez *, A. Forner, M. Gomez Aparicio, M. Diez Gallego, J. Merino Gestoso, M. Chapel-Gomez, E. Lozano, M. Carrizo Ibarra, A. Lozano Martinez, S. Sastre Gallego

PO-BPC-Exhibit Hall-41 Characterization of a Novel Kilovoltage Fan Beam CT System Integrated with a Ring Gantry Linac - G. Gibbard *, J. Tan, T. Zhuang, Y. Park, K. Wang, W. Lu, M. Lin, R. Reynolds, A. Godley, A. Pompos, S. Jiang, B. Cai

PO-BPC-Exhibit Hall-42 Evaluation of Personalized Planning Tool for Head and Neck Cancer - S. Ahmed *, T. Gray, C. Liu, D. LaHurd, E. Murray, N. Woody, S. Koyfman, P. Xia

PO-BPC-Exhibit Hall-43 Utility of 3D Printer in Brachytherapy to Fabricate End-To-End Testing Phantoms for Multiple Purposes - A. Gomez, L. Rodriguez, W. Romaguera, T. Poozhikala, T. Romaguera, J. Contreras, R. Tolakanahalli, V. Chaswal *

PO-BPC-Exhibit Hall-44 Evaluation of Geometric Distortions of Radiosurgery MRI Protocols for Three MR Scanners - H. Wang *, A. Kocharian, R. Pino

PO-BPC-Exhibit Hall-45 Comparison of Film and Diamond Detector Small Field Dosimetry Commissioning Measurements - S. Zabinski *, J. Giltz

PO-BPC-Exhibit Hall-46 Dosimeter Characteristics of 3D Printed Boluses - R. Li *, M. Li, C. Song, S. Tafon Penn, N. Deb, T. Xue

PO-BPC-Exhibit Hall-47 Image Based Mechanical Isocenter Runout Measurement - A. Lukban *, I. Crooks

PO-BPC-Exhibit Hall-48 Difference Between Optimized and Final Dose in Lung SBRT Treatment Planning - K. Skidmore *, C. Ramsey, I. Pfeiffer, J. Bowling, T. Nosovitsky

PO-BPC-Exhibit Hall-49 Evaluation of Off-Axis Spatial Precision for Varian and Elekta Linear Accelerators - C. Ramsey *, J. Bowling, A. Usynin, I. Pfeiffer, S. West, D. Chase

PO-BPC-Exhibit Hall-50 An Inverse Planning Technique for High Dose Rate Tandem and Ovoid - A. Harnage *, C. Ramsey, J. Bowling, I. Pfeiffer, G. Clark

Professional Symposium - SAM

8:00 AM - 10:00 AM

-Celestin Ballroom

SA-A-Celestin AAPM Medical Physics Practice Guidelines

Moderator: Carnell Hampton, Levine Cancer Institute/Atrium Health, Charlotte, NC

Saturday, March 26, 2022

8:00 AM **D. Pavord, Allegheny General Hospital: AAPM Medical Physics Practice Guidelines**

8:30 AM **A. Olch, Childrens Hospital of LA: Update on Therapy MPPGs**

9:15 AM **M. Keenan, Vanderbilt University Medical Center: Update on Imaging MPPGs**

Early-Career Investigator Symposium

10:30 AM - 12:30 PM

-Celestin Ballroom

SA-B-Celestin Early-Career Investigator Symposium

Moderators: Jeffrey Moirano, University of Washington, Seattle, WA and Derek Fetters, Banner MD Anderson Cancer Center, Gilbert, AZ

10:30 AM **SA-B-Celestin-01 Clinic-Wide Cherenkov Imaging Identifies New Areas of Quality Improvement in Radiation Therapy** - D. Alexander *, M. Jermyn, P. Bruza, R. Zhang, E. Chen, S. Decker, B. Pogue, L. Jarvis, D. Gladstone

10:40 AM **SA-B-Celestin-02 Inter-System Comparison of Shear Wave Elasticity Imaging in Patients Undergoing Bariatric Surgery** - H. Whitson *, A. Possell, J. Zagzebski, C. Sirlin, S. Reeder, T. Hall, I. Rosado-Mendez, L. Mankowski-gettle

10:50 AM **SA-B-Celestin-03 Dosimetry for Small-Field Proton Irradiation Under Conventional and FLASH Dose-Rates** - J. Ryser *, A. Husain, M. Huang, K. Shoniyozov, L. Dong, Y. Fan, E. Diffenderfer, J. Zou

11:00 AM **SA-B-Celestin-04 Workload data in a modern digital radiography practice** - K. Kirby *, B. Schueler, L. Littrell, Z. Long

11:10 AM **SA-B-Celestin-05 Automated Detection Algorithms for Improving Radiotherapy Delivery That Directly Quantify Treatment Errors from Online In Vivo Cherenkov Imaging** - S. Decker *, D. Alexander, P. Bruza, R. Zhang, E. Chen, L. Jarvis, D. Gladstone, B. Pogue

11:20 AM **SA-B-Celestin-06 Motion Effects in Cardiac Ablation Radiotherapy** - R. Trevillian *, J. Marcel, N. Yegya-raman, L. Yin, Z. Zhang, H. Chen, S. Feigenberg, J. Arkles, B. Teo, J. Zou, K. Cengel

11:30 AM **SA-B-Celestin-07 Cumulative Dose Reconstruction Using CBCT-Based Synthetic CT for Interfractional Tissue Expander Metallic Port Variability** - J. Liu *, C. Chen, P. Park, A. Shim, P. Tsai, C. Shi, H. Lin, I. Choi

11:40 AM **SA-B-Celestin-08 Monte Carlo Simulations of the Dose Distribution for a Novel Y-90 Disc Source for Episcleral Brachytherapy** - X. Chang *, L. Huang, J. Liu, Y. Cao, J. Chang

11:50 AM **SA-B-Celestin-09 Characterization of Newly Designed EDGE Detector for UHDR FLASH Radiotherapy** - A. Sloop *, M. Rahman, J. Kozelka, M. Ashraf, P. Bruza, D. Gladstone, B. Pogue, J. Kapatoes, W. Simon, R. Zhang

12:00 PM **SA-B-Celestin-10 Target Visibility on Planar Radiographs on the Radixact Synchrony System** - W. Ferris *, L. DeWerd, W. Culbertson

Vendor Showcase

1:30 PM - 2:00 PM

-Celestin Ballroom

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Saturday, March 26, 2022**SA-SHOWCASE-Celestin Sun Nuclear Corporation**

1:30 PM J. Tracy, Sun Nuclear Corporation: Improving Patient Safety through Standardized, Automated Quality Management for Standard & SRS Treatments

Therapy Symposium - SAM

2:00 PM - 4:00 PM

-Celestin Ballroom

SA-C-Celestin Practical Considerations for the Clinical Physicist

Moderator: Christopher Tien, Yale University School of Medicine, New Haven, CT

2:00 PM J. Kavanaugh, Washington University in St. Louis: Enhancing a Physicist's Role in the Assessment of Treatment Plan Quality

2:20 PM M. Lin, The University of Texas Southwestern Medical Ctr: Enhancing a Physicist's Role in the Assessment of Treatment Plan Quality

2:40 PM E. Draeger, Yale New Haven Hospital: Superficial Targets: Do I Use Photons, Electrons or Brachytherapy?

3:00 PM K. Hogstrom, Mary Bird Perkins Cancer Center: Superficial Targets: Do I Use Photons, Electrons or Brachytherapy?

3:20 PM C. Shi, New York Proton Center: Are You Ready When Patients Undergoing Radiotherapy Have Such Implanted Devices?

3:40 PM M. Chan, Memorial Sloan Kettering Cancer Center: Are You Ready When Patients Undergoing Radiotherapy Have Such Implanted Devices?

Diagnostic Symposium - SAM

2:00 PM - 4:00 PM

-Imperial Ballroom

SA-C-Imperial CTDIvol - The Helical Revolution?

Moderator: Jeffrey Moirano, University of Washington, Seattle, WA

2:00 PM E. Olguin, : Overcoming Clinical Challenges in Measuring CTDIvol

2:50 PM D. Gress, American College of Radiology: How Changes Can Happen in ACR Accreditation

3:20 PM T. Aufdemberge, Medical Physics Consultants: Challenges in Traditional Axial CTDIvol Measurements Eliminated with the Proposed Helical CTDIvol Method

Therapy Symposium - SAM

4:30 PM - 5:30 PM

-Celestin Ballroom

SA-D-Celestin Radiation Timing: The Physician & Physicist Perspective

Moderators: Cassandra Stambaugh, Tufts Medical Center, Boston, MA, and Tyler Blackwell, Radformation, Olympia, WA

4:30 PM K. Huber, Tufts Medical Center: Radiobiological and Clinical Principles That Guide Treatment Schedule Changes

5:00 PM M. Taylor, Alliance Cancer Care: Practical Approaches to Documenting Accumulation from Multiple and Missed Treatments

Saturday, March 26, 2022**Diagnostic Symposium - SAM**

4:30 PM - 5:30 PM

-Imperial Ballroom

SA-D-Imperial Carson-Zagzebski Distinguished Lectureship on QIBA Profiles in Ultrasound

Moderator: Jeffrey Moirano, University of Washington, Seattle, WA

4:30 PM I. Rosado-Mendez, University of Wisconsin-Madison: US QIBA - Pulse Echo Quantitative US Parameters (PEQUS) and Shear Wave Speed (SWS)

5:00 PM P. Carson, The University of Michigan Health System: US QIBA - Volume Blood Flow (VBF) and Contrast Enhanced US (CEUS)

Sunday, March 27, 2022**Joint Therapy-Diagnostic Symposium - SAM**

8:00 AM - 10:00 AM

-Celestin Ballroom

SU-A-Celestin 18F-DOPA PET/CT for Radiation Treatment Planning and Prognostication in Patients with High-Grade Glioma

Moderator: Courtney Buckey, Mayo Clinic Arizona, Phoenix, AZ

8:00 AM H. Cai, Mayo Clinic: Radiochemist Perspective On 18F-DOPA-Directed Radiotherapy for High-Grade Glioma

8:40 AM W. Breen, Mayo Clinic: Clinical Perspectives On 18F-DOPA-Directed Radiotherapy for High-Grade Glioma: Early Data, Utility, and Future Directions

9:20 AM J. Qian, Mayo Clinic: Prediction of Treatment Prognosis and Tumor Aggressiveness Based on Radiomics and FDOPA PET Images for Newly Diagnosed Glioblastoma Treated with Escalated Radiation Dose

Professional Symposium - SAM

10:30 AM - 12:30 PM

-Celestin Ballroom

SU-B-Celestin Causal Analysis

Moderator: Grace Gwe-Ya Kim, University of California, San Diego, La Jolla, CA

10:30 AM B. Thomadsen, University of Wisconsin: How to Perform a Causal Analysis

11:10 AM G. Kim, University of California, San Diego: The Challenges and Barriers for Causal Analysis

11:50 AM C. Buckey, Mayo Clinic Arizona: Moving Forward: Remediating Errors and Preventing New Ones

Diagnostic Symposium - SAM

10:30 AM - 12:30 PM

-Imperial Ballroom

SU-B-Imperial Monitoring the Monitors

Moderator: Cristina Dodge, AdventHealth, Winter Garden, FL

10:30 AM A. Walz-Flannigan, Marshfield Clinic: Monitoring the Monitors

11:30 AM A. Xthona, Barco: Barco Tools for Monitor QC

11:50 AM A. Snyder, Atirix Medical Systems, Inc: Atirix Fleet Management Tool

AAPM Spring Clinical Meeting Calendar of Events**JOURNAL OF APPLIED CLINICAL
MEDICAL PHYSICS****Sunday, March 27, 2022**

12:00 PM Roundtable Discussion

Therapy Symposium - SAM

2:00 PM - 4:00 PM

-Celestin Ballroom

SU-C-Celestin Practical Improvements: Make It Go Away or Make It Better

Moderator: Tyler Blackwell, Radformation, Olympia, WA

2:00 PM **J. Hoisak, UC San Diego: Shortening the Sim-to-Start Window**2:30 PM **J. Kerns, : 3D Printing makes everything better, including Machine QA**3:00 PM **R. Krauss, St. Francis Hospital: Innovations in Linac Quality Assurance**3:30 PM **D. Roberts, University of Michigan Hospital: Quality Assurance for Multi-Target Stereotactic Radiosurgery****Professional Symposium - SAM**

2:00 PM - 4:00 PM

-Imperial Ballroom

SU-C-Imperial The Modern Practice of Professional Diagnostic Physics

Moderator: Ryan Fisher, MetroHealth, Cleveland, OH

2:00 PM **D. Gress, American College of Radiology: Diagnostic Workforce I**2:30 PM **S. Rose, University of Texas at Houston Medical School: Diagnostic Workforce II**3:00 PM **J. Wilson, Duke University Health System: Diagnostic Practice Models**3:10 PM **D. Gauntt, UAB Medical Center: Diagnostic Practice Models**3:20 PM **R. Milman, University of Colorado School of Medicine: Diagnostic Practice Models**3:30 PM **R. Fisher, MetroHealth: Diagnostic Practice Models**3:40 PM **Panel Discussion****Therapy Symposium - SAM**

4:30 PM - 5:30 PM

-Celestin Ballroom

SU-D-Celestin Advancing Particle Therapy in the United States

Moderator: Richard Amos, University College London, London,

4:30 PM **Introduction**4:33 PM **M. Pankuch, Northwestern Medicine Chicago Proton Center: A Decade of Scanning Beam Proton Therapy in The United States**4:50 PM **A. Mascia, University of Cincinnati Medical Center: Deploying FLASH Radiotherapy in a Clinical Trial Setting**5:07 PM **C. Beltran, Mayo Clinic: Carbon Ions**5:24 PM **Q&A****Mammography Symposium - SAM**

4:30 PM - 5:30 PM

-Imperial Ballroom

SU-D-Imperial Spotlight on Mammography QC Transition

Moderator: Lindsey Berkowitz, Maine Medical Center, Portland, ME

Sunday, March 27, 20224:30 PM **N. Bevins, Henry Ford Health System: Alternative Standard Implementation: Experiences from Transitioning a Large Health Care System to the ACR Digital Mammography Quality Control****Monday, March 28, 2022****Therapy Symposium - SAM**

8:00 AM - 10:00 AM

-Celestin Ballroom

MO-A-Celestin Brachy: Basics to Advancements

Moderators: Cassandra Stambaugh, Tufts Medical Center, Boston, MA, and Tyler Blackwell, Radformation, Olympia, WA

8:00 AM **J. Matney, UC Davis Cancer Center: Back to Brachy Basics**8:30 AM **S. Simiele, MD Anderson Cancer Center: Image-Guided Prostate Brachytherapy: A US, MR, and CT-Based LDR Workflow**8:45 AM **A. Besemer, University of Nebraska Medical Center: Image-Guided Prostate Brachytherapy: A US/MR-Based HDR Workflow**9:00 AM **J. Prisciandaro, University of Michigan: Clinical Implementation of MRI for Gynecologic and Prostate HDR Brachytherapy**9:15 AM **G. Cohen, Memorial Sloan-Kettering Cancer Center: Clinical Implementation of MRI for Gynecologic and Prostate HDR Brachytherapy**9:30 AM **O. Craciunescu, Duke University Medical Center: Developing Modern Brachytherapy Teaching Tools**9:45 AM **T. Li, University of Pennsylvania: Developing Modern Brachytherapy Teaching Tools****Diagnostic Symposium - SAM**

8:00 AM - 10:00 AM

-Imperial Ballroom

MO-A-Imperial Advances and Applications of AI in Pediatric Radiology

Moderator: Cristina Dodge, AdventHealth, Winter Garden, FL

8:00 AM **U. Mahmood, Memorial Sloan Kettering Cancer Center: Five Questions to Ask AI Vendors – What You Need to Know Before You Buy**9:00 AM **S. Brady, Cincinnati Childrens Hospital Med Ctr: Practical Tips and Advice After Implementing AI Technologies in the Clinic****Therapy Symposium - SAM**

10:30 AM - 12:30 PM

-Celestin Ballroom

MO-B-Celestin Learn from Those Who've Been There Before: Clinical Implementation of Procedures and Technologies

Moderator: James Kavanaugh, Washington University in St. Louis, University City, MO

10:30 AM **D. Zheng, University of Rochester: Quick Start Guide to New Procedures and Technologies in Radiotherapy**10:50 AM **S. Tanny, University of Rochester: Quick Start Guide to New Procedures and Technologies in Radiotherapy**

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Monday, March 28, 2022

- 11:10 AM **B. Ruiz, Beaufort Memorial Hospital (Alliance Oncology): Experience with Clinical Implementation of the Halcyon: Lessons Learned for the Practicing Physicist**
- 11:30 AM **V. Ulizio, Alliance Cancer Care: Experience with Clinical Implementation of the Halcyon: Lessons Learned for the Practicing Physicist**
- 11:50 AM **M. Grams, Mayo Clinic: Clinical Implementation and Utilization of Spatially Fractionated Radiation Therapy**

Mammography Symposium - SAM

10:30 AM - 12:30 PM

-Imperial Ballroom

MO-B-Imperial Breast Biopsy: Clinical Physicist Perspectives

Moderator: Lindsey Berkowitz, Maine Medical Center, Portland, ME

- 10:30 AM **C. Williams, Radiation Services, Inc.: What Do I Do Now? Vendor QC Requirements for Upright Attachments**
- 11:30 AM **H. Edmonson, Mayo Clinic: MR Safety in Breast Imaging and MR-Guided Breast Biopsy**

Professional Symposium - SAM

2:00 PM - 4:00 PM

-Celestin Ballroom

MO-C-Celestin Ethics for the Medical Physicist: Updates and Discussions from the ICRP and AAPM Task Groups

Moderator: Jeffrey Moirano, University of Washington, Seattle, WA

- 2:00 PM **K. Applegate, : Teaching and Harmonizing Radiological Protection Ethics in Medicine**
- 2:30 PM **F. Fahey, Children's Hospital: Teaching and Harmonizing Radiological Protection Ethics in Medicine**
- 3:00 PM **J. St-Aubin, University of Iowa: Ethics Unwrapped: Ethics Case Study in Social Media Use**
- 3:30 PM **R. Castillo, Emory Univ: Ethics Unwrapped: Ethics Case Study in Social Media Use**

Therapy Symposium - SAM

4:30 PM - 5:30 PM

-Celestin Ballroom

MO-D-Celestin Implementing Novelties in the Clinic

Moderator: Courtney Buckey, Mayo Clinic Arizona, Phoenix, AZ

- 4:30 PM **Introduction**
- 4:32 PM **G. Kim, University of California, San Diego: Multiple Brain Metastases Stereotactic Radiosurgery**
- 4:45 PM **X. Gu, Stanford University: Multiple Brain Metastases Stereotactic Radiosurgery**
- 4:58 PM **Q&A**
- 5:01 PM **P. Galavis, NYU Langone Medical Center: Clinical Implementation of VMAT Total Body Irradiation**
- 5:14 PM **J. Teruel, NYU Langone Health: Clinical Implementation of VMAT Total Body Irradiation**
- 5:27 PM **Q&A**

Monday, March 28, 2022**Diagnostic Symposium - SAM**

4:30 PM - 5:30 PM

-Imperial Ballroom

MO-D-Imperial MR Homogeneity: Introduction and Vendor-Specific Evaluation

Moderator: Cristina Dodge, AdventHealth, Winter Garden, FL

- 4:30 PM **C. Brunnquell, University of Washington: MR Homogeneity: Introduction and Vendor-Specific Evaluation**

Tuesday, March 29, 2022**Therapy Symposium - SAM**

8:00 AM - 10:00 AM

-Celestin Ballroom

TU-A-Celestin Do We Have a Plan B? Adaptive Therapy

Moderator: Dennis Stanley, The University of Alabama at Birmingham, Birmingham, AL

- 8:00 AM **D. Stanley, The University of Alabama at Birmingham: Clinical Implementation of Adaptive Therapy**
- 8:30 AM **A. Price, Washington University in St. Louis: Building an Adaptive Radiotherapy Program from An MR and CT Based Perspective**
- 9:00 AM **S. Tanny, University of Rochester: Clinical Implementation of CBCT-Guided Online Adaptive Therapy**
- 9:30 AM **Y. Rong, Mayo Clinic Arizona: Consideration of Treatment Accuracy, Efficiency, and Cost with the Overall Impact of RO-APM**

Mammography Symposium - SAM

8:00 AM - 10:00 AM

-Imperial Ballroom

TU-A-Imperial A Different Angle on Tomosynthesis: Clinical Use and Evaluation

Moderator: Lindsey Berkowitz, Maine Medical Center, Portland, ME

- 8:00 AM **E. Pisano, American College of Radiology: TMIST - A Bridge to Individualized Breast Cancer Screening**
- 9:00 AM **L. Ikejimba, US Food and Drug Admin: Performance of Digital Breast Tomosynthesis: Where Are We Now?**

Professional Symposium - SAM

10:30 AM - 12:30 PM

-Celestin Ballroom

TU-B-Celestin Legislative and Regulatory Update

Moderator: Jennifer Tucker, Radiation Center of Greater Nashua, Bedford, NH

- 10:30 AM **R. Martin, AAPM: Legislative and Regulatory Update**
- 11:10 AM **M. Reiter, Capital Associates, Inc.: Legislative Outlook**
- 11:50 AM **J. Elee, LA Dept of Environmental Qual: CRCPD Update**