

**American Association of Physicists in Medicine 2020**  
**Department of Radiation Oncology**  
**University of Maryland School of Medicine**

<b>Identifier</b>	<b>Authors</b>	<b>Title (ctrl+click to link to abstract)</b>	<b>Type</b>
BReP-SNAP-T-85	<b>Becker S, Yi B</b>	<a href="#">Improving Uncertainty in GammaPod Dose Through the Use of ND,w and IAEA TRS 483</a>	Blue ribbon poster
BReP-SNAP-M-11	R Panthi, D Mackin, S Peterson, <b>P Maggi, J Polf</b> , S Beddar	<a href="#">A Novel Kernel-Weighted Back-Projection Reconstruction Algorithm for Compton Camera Imaging</a>	Blue ribbon poster
BReP-SNAP-M-77	<b>E Vicente, A Modiri</b> , J Kipritidis, A Hagan, KYu, H Wibowo, Y Yan, D Owen, M Matuszak, <b>P Mohindra</b> , R Timmerman, <b>A Sawant</b>	<a href="#">Functionally Weighted Airway Sparring (FWAS) to Preserve Post-SAbR Respiratory Function</a>	Blue ribbon poster
BReP-SNAP-M-108	<b>S Lee, B Zhang, G Lasio, A Gopal</b> , I Lee, <b>H Xu, S Chen, B Yi</b>	<a href="#">Off-Line Treatment Monitoring of Head and Neck Radiotherapy Using Daily Cone-Beam Computed Tomography: A Preliminary Study</a>	Blue ribbon poster
BReP-SNAP-T-88	<b>B Zhang, H Chen, H Xu, M Guerrero, M Zakhary, A Gopal, S Chen, B Yi</b>	<a href="#">In-House Automatic Radiation Oncology Physics Chart Check: Initial Experience</a>	Blue ribbon poster
BReP-SNAP-T-65	<b>A Gopal, B Zhang, G Lasio, S Lee, B Yi</b>	<a href="#">Evaluation of a Localized Correlation Based Predictive Metric as a Decision Making Tool in Online Image Guidance and Offline Adaptive Prostate Radiotherapy</a>	Blue ribbon poster
MO-EF-TRACK 3-9	<b>J Polf</b> , F Bateman, <b>S Mossahebi, P Sabouri, M MacFarlane</b> , R Tosh	<a href="#">A First Step Toward Dose Calibration in FLASH Electron Beams</a>	Presentation
PO-CHAPTER-Virtual-4	C Geraghty, L Padilla, J Moore, <b>H Xu</b> , L Jones, B Hasson	<a href="#">Mid Atlantic Chapter</a>	Presentation
PO-GeP-M-49	<b>Y Poirier, S Becker, S Mossahebi, N Lamichhane, A Sawant</b>	<a href="#">ALARA in a Flash - Radiation Shielding and Safety Implications Following Linac Conversion to An Electron FLASH-RT Unit</a>	Poster
PO-GeP-T-165	<b>Guerrero M, Zhang B, Nichols E, Becker</b>	<a href="#">Can We Use a Decay Plan for GammaPod APBI Treatments?</a>	Poster
PO-GeP-M-59	<b>N Biswal, D Rodrigues, W Yao, S Chen</b>	<a href="#">Analysis of Couch Shifts for Each Field for Proton Treatment Delivery of Head and Neck Cancer Patients: Towards Optimal Imaging Frequency</a>	Poster

PO-GeP-M-92	<b>P Sabouri, M Mundis, S Andersson, R Nilsson, K Eriksson, S Chen, S Mossahebi</b>	<b>CBCT-Based Adaptive Intensity Modulated Proton Radiotherapy</b>	Poster
PO-GeP-M-299	<b>J Nasehi Tehrani*, C Kalavagunta, G Lasio, S Chen, B Y</b>	<b>Motion of Electronic Portal Imaging Devices and Clinical Implications for Multi-Leaf Collimator Quality Assurance</b>	Poster
PO-GeP-M-108	Z Iqbal, R McBeth, M Joo, D Parsons, A Rahimi, N Kim, <b>A Sawant, X Gu, B Zhao</b>	<b>Comparing the Stability of Deep Inspiration Breath-Holds Between ABC and VisionRT During Breast Irradiation</b>	Poster
PO-GeP-M-119	<b>P Maggi, C Barajas, G Kroiz, J Basalyga, S Peterson, D Mackin<sup>4</sup>, R Panthi, S Beddar, M Gobbert, J Polf</b>	<b>Compton Camera Event Classification Using Artificial Neural Networks</b>	Poster
PO-GeP-M-122	J Jung, I Yeo, J Kim, <b>B Yi</b>	<b>Continuous On-Beam Computer Tomographic Image Reconstruction at the Moment of Treatment by Amplitude/phase Scaling of Deformation Vector Fields</b>	Poster
PO-GeP-M-146	<b>P Maggi, S Peterson, R Panthi, D Mackin, S Beddar, J Polf</b>	<b>Detector Performance Effects On Compton Camera Data Quality</b>	Poster
PO-GeP-M-271	S Peterson, <b>P Maggi, R Panthi, D Mackin, S Beddar, J Polf</b>	<b>Investigating the Impact of Secondaries Neutrons On Compton Camera for Medical Imaging</b>	Poster
PO-GeP-T-112	<b>M MacFarlane, S Mossahebi, J Chen, N Lamichhane, M Guerrero</b>	<b>Application of Fast Inverse Dose Optimization for Intensity Modulated Proton Therapy</b>	Poster
PO-GeP-T-148	<b>S Mossahebi, A Modiri, P Sabouri, E Makdsay Hana, A Sawant, B Yi</b>	<b>Beam Characteristics of Energy-Modulated Proton Beams for Single-Energy-Modulated Proton Arc Therapy (SEM-PAT)</b>	Poster
PO-GeP-T-201	<b>Y Poirier, A Anvari, R Nilsson, A Gerry, C Johnstone, A Sawant</b>	<b>Commissioning of An Xstrahl SARRP in the Novel Micro-RayStation Treatment Planning System</b>	Poster
PO-GeP-T-380	<b>A Modiri, S Mossahebi, P Mohindra, R Miller, A Sawant, S Chen, B Yi</b>	<b>Enhanced Sparing of Organs at Risk with the Single-Energy-Modulated Proton Arc Therapy (SEM-PAT); A Proof of Concept in Central Lung and Pelvis</b>	Poster
PO-GeP-T-389	<b>G Lasio, B Zhang, S Lee, A Gopal, B Yi</b>	<b>Surveillance of Conventionally Fractionated Lung Radiotherapy Using a CBCT Dose Calculation Framework - a Preliminary Study</b>	Poster

PO-GeP-T-424	<b>K Jiang, M MacFarlane, S Mossahebi, M Zakhary</b>	<b>Evaluation of Treatment Planning System Accuracy in Estimating the Stopping Power Ratio of Immobilization Devices for Proton Therapy</b>	Poster
PO-GeP-T-647	<b>Akbar Anvari, Amit Sawant</b>	<b>Preclinical Application of Electronic Portal Imaging Device</b>	Poster
PO-GeP-T-663	<b>W Yao</b>	<b>Proton Energy Spectrum-Based Linear Energy Transfer Measurement</b>	Poster
PO-GeP-T-771	<b>G Babakhanova, T Dukic, B Bhandary, P Maggi, N Lamichhane, J Mahmood, I Pazos, R Tosh, C Simon, J Polf</b>	<b>The Effects of Radiation On Cell Viability in Hydrogel Scaffolds Used for 3D Tumor Model Construction</b>	Poster
PO-GeP-T-772	<b>K Jiang, M MacFarlane, M Guerrero, S Becker, S Chen, S Lee</b>	<b>The Impact of Envelope Smoothing On Photon and Electron Beam Profile Characteristics</b>	Poster
PO-GeP-T-837	<b>M Guerrero, M Lin, W Yao, B Yi, S Becker, J Molitoris, A Kaiser</b>	<b>Validation of a Commercial Software Dose Calculation for Y-90 Microspheres</b>	Poster
SU-E-TRACK 6-0	<b>M Zhu, S Mossahebi</b>	<b>Introduction to Pencil Beam Scanning Proton Therapy</b>	Presentation
SU-E-TRACK 6-1	<b>M Zhu, S Mossahebi</b>	<b>Treatment planning techniques for PBS</b>	Presentation
SU-E-TRACK 6-2	<b>M Zhu, S Mossahebi</b>	<b>Beam Commissioning and routine QA</b>	Presentation
SU-F-TRACK 5-0	<b>M Guerrero, V Moiseenko</b>	<b>Clinical Outcomes Modeling</b>	Presentation
SU-F-TRACK 5-1	<b>M Guerrero, V Moiseenko</b>	<b>Models of Tumor Response</b>	Presentation
SU-F-TRACK 5-2	<b>M Guerrero, V Moiseenko</b>	<b>Normal Tissue Complication Probability Models – conventional approaches and modern trends</b>	Presentation
WE-A-TRACK 3-4	<b>M MacFarlane, K Jiang, M Mundis, E Nichols, S Chen, N Biswal</b>	<b>Comparison of the Dosimetric Accuracy of Proton Breast Plans Delivered with VisionRT and CBCT Setup</b>	Presentation
WE-C-TRACK 3-0	<b>Y Poirier, K Sheng, M Ghita</b>	<b>Small Animal Radiotherapy: What's New?</b>	Presentation
WE-C-TRACK 3-1	<b>Y Poirier</b>	<b>The potential of automated QA in radiation biology using comprehensive EPID-based QA tools for image-guided small animal irradiators</b>	Presentation
WE-F-TRACK 2-3	<b>P Sabouri, M Ranjbar, S Mossahebi, A Sawant, P Mohindra, G Lasio, L Topoleski</b>	<b>Using In-Situ KV Images to Update a CT-Based Volumetric Lung Motion Model</b>	Presentation