

July 12 – July 16, 2021

AAPM 2020 Univ Maryland Dept Radiation Oncology			
BReP-SNAP-T-85	Becker S, Yi B	Improving Uncertainty in GammaPod Dose Through the Use of ND,w and IAEA TRS 483	Blue ribbon poster
BReP-SNAP-M-11	R Panthi, D Mackin, S Peterson, P Maggi, J Polf, S Beddar	A Novel Kernel-Weighted Back-Projection Reconstruction Algorithm for Compton Camera Imaging	Blue ribbon poster
BReP-SNAP-M-77	E Vicente, A Modiri, J Kipritidis, A Hagan, K Yu, H Wibowo, Y Yan, D Owen, M Matuszak, P Mohindra, R Timmerman, A Sawant	Functionally Weighted Airway Sparing (FWAS) to Preserve Post-SAbR Respiratory Function	Blue ribbon poster
BReP-SNAP-M-108	S Lee, B Zhang, G Lasio, A Gopal, I Lee, H Xu, S Chen, B Yi	Off-Line Treatment Monitoring of Head and Neck Radiotherapy Using Daily Cone-Beam Computed Tomography: A Preliminary Study	Blue ribbon poster
BReP-SNAP-T-88	B Zhang, H Chen, H Xu, M Guerrero, M Zakhary, A Gopal, S Chen, B Yi	In-House Automatic Radiation Oncology Physics Chart Check: Initial Experience	Blue ribbon poster
BReP-SNAP-T-65	A Gopal, B Zhang, G Lasio, S Lee, B Yi	Evaluation of a Localized Correlation Based Predictive Metric as a Decision Making Tool in Online Image Guidance and Offline Adaptive Prostate Radiotherapy	Blue ribbon poster
MO-EF-TRACK 3-9	J Polf, F Bateman, S Mossahebi, P Sabouri, M MacFarlane, R Tosh	A First Step Toward Dose Calibration in FLASH Electron Beams	Presentation
PO-CHAPTER-Virtual-4	C Geraghty, L Padilla, J Moore, H Xu, L Jones, B Hasson	Mid Atlantic Chapter	Presentation
PO-GeP-M-49	Y Poirier, S Becker, S Mossahebi, N Lamichhane, A Sawant	ALARA in a Flash - Radiation Shielding and Safety Implications Following Linac Conversion to An Electron FLASH-RT Unit	Poster
PO-GeP-T-165	Guerrero M, Zhang B, Nichols E, Becker	Can We Use a Decay Plan for GammaPod APBI Treatments?	Poster
PO-GeP-M-59	N Biswal, D Rodrigues, W Yao, S Chen	Analysis of Couch Shifts for Each Field for Proton Treatment Delivery of Head and Neck Cancer Patients: Towards Optimal Imaging Frequency	Poster

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PO-GeP-M-92	P Sabouri, M Mundis, S Andersson, R Nilsson, K Eriksson, S Chen, S Mossahebi	CBCT-Based Adaptive Intensity Modulated Proton Radiotherapy	Poster
PO-GeP-M-299	J Nasehi Tehrani*, C Kalavagunta, G Lasio, S Chen, B Y	Motion of Electronic Portal Imaging Devices and Clinical Implications for Multi-Leaf Collimator Quality Assurance	Poster
PO-GeP-M-108	Z Iqbal, R McBeth, M Joo, D Parsons, A Rahimi, N Kim, A Sawant, X Gu, B Zhao	Comparing the Stability of Deep Inspiration Breath-Holds Between ABC and VisionRT During Breast Irradiation	Poster
PO-GeP-M-119	P Maggi, C Barajas, G Kroiz, J Basalyga, S Peterson, D Mackin⁴, R Panthi, S Beddar, M Gobbert, J Polf	Compton Camera Event Classification Using Artificial Neural Networks	Poster
PO-GeP-M-122	J Jung, I Yeo, J Kim, B Yi	Continuous On-Beam Computer Tomographic Image Reconstruction at the Moment of Treatment by Amplitude/phase Scaling of Deformation Vector Fields	Poster
PO-GeP-M-146	P Maggi, S Peterson, R Panthi, D Mackin, S Beddar, J Polf	Detector Performance Effects On Compton Camera Data Quality	Poster
PO-GeP-M-271	S Peterson, P Maggi, R Panthi, D Mackin, S Beddar, J Polf	Investigating the Impact of Secondaries Neutrons On Compton Camera for Medical Imaging	Poster
PO-GeP-T-112	M MacFarlane, S Mossahebi, J Chen, N Lamichhane, M Guerrero	Application of Fast Inverse Dose Optimization for Intensity Modulated Proton Therapy	Poster
PO-GeP-T-148	S Mossahebi, A Modiri, P Sabouri, E Makdsay Hana, A Sawant, B Yi	Beam Characteristics of Energy-Modulated Proton Beams for Single-Energy-Modulated Proton Arc Therapy (SEM-PAT)	Poster
PO-GeP-T-201	Y Poirier, A Anvari, R Nilsson, A Gerry, C Johnstone, A Sawant	Commissioning of An Xstrahl SARRP in the Novel Micro-RayStation Treatment Planning System	Poster
PO-GeP-T-380	A Modiri, S Mossahebi, P Mohindra, R Miller, A Sawant, S Chen, B Yi	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	Poster
PO-GeP-T-389	G Lasio, B Zhang, S Lee, A Gopal, B Yi	Surveillance of Conventionally Fractionated Lung Radiotherapy Using a CBCT Dose Calculation Framework - a Preliminary Study	Poster

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