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University of Maryland School of Medicine

Adam DP, Cartee A, Marsh I, Kiess A, He B, Ghaly M, Kania NR, President BNC, Wang H, Rowe S, Tran P, Frey EC, Sgouros G, Hibbs RF	MO-235-209-2 Retrospective evaluation of combined photon SBRT and radium-223 SPECT based radiopharmaceutical therapy tumor dosimetry in clinical trial patient cases	Snap oral
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Cao Y, Sutera P, Mendes WS, Sawant A, Marchionni L, Simone NL, Tran P, Onal C, Ren L	MO-130-BRC-1 Interpretable deep learning predicts metastasis-free survival (MFS) from conventional imaging for oligometastatic castration-sensitive prostate cancer (omCSPC) using multi-modality PSMA PET and CT imaging	Oral
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Jiang K, Huang K, Lamichhane N, Guerrero M, Nichols E, Chen S, Hrycushko BA, Medin PM	PO-GPV-T-257 A dosimetric study of misconnection to unloaded needles in interstitial HDR brachytherapy	Poster, online only
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Lang Y, Buller J, Jiang Z, Sun L, Xu Y, Xiang L, Ren L	TU-730-206-2 Enhancing image quality in acoustic imaging using the Segment Anything Model (SAM)	Oral
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Lee SW, Yao W, Biswal NC, Zhang B, Cheston S	SU-330-GPD-T-505 Contingency planning for left-sided breast radiation treatment using breath-hold technique with different delivery methods	Poster
MacFarlane MJ, Biswal NC, Zakhary MJ, Ferris MJ, Molitoris JK, Yi BY	SU-330-GPD-T-741 Could synthetic CTs simulating patient anatomical changes help improve the robustness of head-and-neck proton plans?	Poster
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Rahimi R, SaiToh A, Modiri A, Nakano Y, Okada KN, Tsukano S, Zhang B, Fujii K, Kitagawa M, Sawant A	WE-1005-BRC-3 First demonstration of prostate radiotherapy plan optimization on an IBM quantum computer	Oral
Ren L	MO-835-202-2 Large foundation models: A new frontier in image processing and reconstruction	Oral
Ren L, Yang X	MO-835-202 Revolutionizing imaging and therapy with large foundation models	Session moderators, organizers

Rodrigues DB, Turner P, Ellsworth J, Molitoris JK, Mishra M, Woodworth G, Ren L	TU-430-209-2 Novel 915 MHz annular phased array applicator for hyperthermia treatment of brain lesions	Snap oral
Sabouri P, Schneider K, Snider JW, Mossahebi S	PO-GPV-T-226 Log file-based patient-specific QA as a viable alternative to measurement-based QA in IMPT	Poster, online only
Sarath KS, Shree C, Tamil Selvan S, Kumar HS, Shukla HD, Agarwalla SK, Nayak JK, Prema P, Biswal NC	TU-235-209-2 Analytical approach to calculate normal tissue complication probability and tumor control probability for ultra-high dose rate radiation (FLASH) Based on Linear-Quadratic Model	Snap oral
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Sharma VR, Zhang J, Moradmamand H, Shakeri E, Chalese AR, Mossahebi S, Peterson SW, Gobbert MK, Ren L, Polf J	WE-1105-209-5 Investigation of a novel snout-mounted Compton camera system for monitoring dose depth	Snap oral
Singh A, Mendes WS, Oh S, Guler OC, Tran P, Onal C, Ren L	SU-1015-207A-5 Prediction of metastasis-free survival in patients with prostate adenocarcinoma using primary tumor and lymph node radiomics from pre-treatment PSMA PET/CT scans.	Oral
Sun L, Bjegovic K, Xu Y, Pandey PK, Lang Y, Gonzalez G, Chen Y, Ren L, Xiang L	MO-235-202-3 Physics-informed neural network for in vivo dosimetry during proton therapy using protoacoustic tomography	Oral
Suntha M	MO-235-204-2 High reliability healthcare organization	Oral
Tominaga Y, Wakisaka Y, Kato T, Oita M, Rahimi R, Nishio T	SU-330-GPD-T-786 improvements of lateral penumbra at various depth regions in scanned proton treatment system with a multi-leaf collimator: dose verifications and plan comparisons	Poster
Wang K, Huang K, Gopal A, Chen S, Sawant A, Molitoris JK, Cammin J,	MO-835-209-2 Feasibility of efficient offline adaptive replanning with Hypersight high-performance cone-beam CT on Truebeam for pelvis RT	Snap oral
Wang K, Shao HC, Tang S, Zhang Y, Wang J	TU-835-202-5 Simultaneous motion estimation and image reconstruction with spatiotemporal implicit neural representation initial (STINR-SMEIR) for gas bubble motion artifact reduction in on-board CBCT imaging	Oral
Xu H, Zhou J, Guerrero M, MacFarlane MJ, Chen S, Zhang B	PO-GPV-T-150 Evaluating the role of surface-guided radiotherapy in prone breast cancer treatment	Poster, online only

Yao W, Ferris MJ, Molitoris JK, Zhang B, Yi BY	PO-GPV-T-147 Automated determination of deteriorations in proton therapy plan quality using daily cone beam CT as a predictor of need for adaptive replans for head and neck cases	Poster, online only
Yi BY	Is a series of comprehensive QA for pre- and post-upgrade necessary?	Oral
Zhang B	TU-1015-201-2 Examples and suggestions on tools and automation for the upgrade QA	Oral
Zhang B, Mutaf YD, Kim H	TU-1015-201 Upgrading radiation oncology information system (ROIS): Checklist and procedures	Session organizer and moderators
Zhang H, Xu H, Poirier YP, Zhou J, Yi BY, Chen S, Zhang B	PO-GPV-T-235 Uncertainty analysis of Hyperarc VMAT plans for stereotactic radiosurgery patients with multiple brain metastases	Poster, online only
Zhang J, Ren L	SU-330-GPD-D-41 Enhance four-dimension cone-beam computed tomography (4D-CBCT) from sparse views using a novel deep learning model	Poster
Zhang J, Xu Y, Sun L, Lang Y, Xiang L, Ren L	SU-130-209-1 A single-view-based electroacoustic tomography imaging using deep learning for electroporation monitoring	Snap oral
Zhou J, Olivieri P, Benda R, Zhang B, Lasio G, Xu H, Xu J, Chen Q, Chen S, Yi BY	PO-GPV-T-444 Evaluating the adequacy of planning target volume margins in lung stereotactic body radiation therapy: assessment of intrafraction motion using a fiducial marker	Poster, online only
Zhuoran J, Zhang Z, Xing L, Ren L, Dai X	WE-305-202-2 BEST IN PHYSICS MULTI-DISCIPLINARY: Foundation model-empowered unsupervised 3D deformable medical image registration	Oral