JSMP127採択演題一覧表

注1	Submission No.	演題番号	演 題 名（英）	セッション名	発表日	時間	部屋
	10045	POP-001	Effect of image acquisition parameters on the accuracy of dose distribution measurements of X-ray CT polymer gel dosimeter	Measurent 1	4月11日（木）	13:10-14:00	418
○	10061	POP-002	Evaluation of dose response of large-area A_2O_3:Cr,Si,Mg thermoluminescence dosimeter using high-energy X-rays				
	10062	POP-003	Patient QA pre-practice test of helical irradiation type VMAT with next generation scintillator dose distribution detector				
	10001	POP-004	Feasibility simulation study for searching robust measurement point in non-isocentric planning				
○	10031	POP-005	Investigating the prediction of radio-sensitivity from genetic variant data	Radiation Biology	4月11日（木）	13:10-14:10	419
	10069	POP-006	Application of a model to describe radiation-induced cell death - Consideration on mixed irradiation -				
○	10055	POP-007	Evaluation of maximum dose and dose-averaged LET for radiation-induced optic neuropathy in carbon-ion radiotherapy for head and neck cancers				
○	10039	POP-008	Investigation of oxygen concentration changes after carbon ion beam using Geant4-DNA				
○	10042	POP-009	Development of biological model for hypo-fractionated multi-ion therapy treatment planning				
○	10006	POP-010	Report on confirmation of dose distribution due to version upgrades of the treatment planning system	QA, QC	4月11日（木）	14:10-15:00	418
○	10013	POP-011	A Study on Sensitivity Adjustment of Monitor Dosimeters Using MPC				
	10053	POP-012	Analysis of Beam Control in Different Delivery Modes with High-Speed Plastic Scintillator Detector				
○	10067	POP-013	A practical solution to mitigate lateral response artifact in film dosimetry using image combination				
	10004	POP-014	Studies on energy-dispersive X-ray computed tomography utilizing beam hardening	Diagnosis CT	4月11日（木）	14:20-15:10	419
	10024	POP-015	Prospective evaluation of non-contact, remote upright CT for lung imaging: Comfortability, efficiency and radiation dose compared to conventional supine CT				
○	10065	POP-016	Photon counting X-ray computed tomography with high spatial resolutions				
○	10068	POP-017	Gadolinium K-edge X-ray computed tomography using a tantalum filter				
	10043	POP-018	Effect of Slice Thickness for DICOM Reference Surface on Positioning Accuracy in Surface Guided Radiotherapy	SGRT, AI	4月11日（木）	15:20-16:10	418
○	10060	POP-019	Investigation of image data preprocessing to improve accuracy in deep learning-based in predicting cardiac dose reduction in DIBH technique				
○	10077	POP-020	Calculation of lens dose from Cone-Beam CT during head and neck IGRT using Monte Carlo simulation				
○	10072	POP-021	Quality assurance and quality control of SGRT systems based on guidelines				
○	10018	POP-022	Evaluation of decreased dose response by x-ray damage of small spherical diode dosimeter	Measurement 2	4月11日（木）	15:20-16:10	419
○	10019	POP-023	Evaluation of dose rate dependency in small spherical diode dosimeter				
○	10040	POP-024	Determination of block factor for output dose audit using BeO dosimeter				
	10044	POP-025	Development of a GPU-based Monte Carlo photon transport code for Near-infrared Photoimmunotherapy				
	10011	POP-026	Prediction vertebral compression fracture after stereotactic body radiotherapy for spinal metastases using radiomics and dosiomics features	RT Technology	4月11日（木）	16:10-17:00	418
○	10030	POP-027	Feasibility study of Robust optimization for uncertainty in CT values				
	10070	POP-028	Development of photon-tracking-based quasi-analytical multi leaf collimator transport calculation method for independent dose verification				
	10056	POP-029	Dosimetric effects of immobilization devices on spine SBRT				
	10007	POP-030	Verification of 4D Propagation Accuracy of GTV in Lung SBRT Using Deformable Image Registration	High precision radiotherapy	4月12日（金）	9:00-9:50	418
	10041	POP-031	A simulation-based evaluation of interplay effect in volumetric modelated radiation therapy with respiratory motion				
○	10047	POP-032	Measurement of delay-time for gated irradiation in a medical linear accelerator				
○	10059	POP-033	Effects of aperture shape controller on VMAT planning for postmastectomy radiotherapy				
	10012	POP-034	Robustness of Helical IMRT for PMRT - Virtual Bolus Study -	Dosimetry and simulation	4月12日（金）	10:00-10:50	418
	10032	POP-035	Assessment of Deformably Generated Synthetic CT in CBCT-based Online ART for Head and Neck Cancer				
	10033	POP-036	Correlation between variation of DVH parameters and delta-radiomics features of EPID-measured fluence map with MLC positional error				
○	10052	POP-037	Robust optimization for uncertainty in shoulder position in Volumetric Modulated Arc Therapy for head and neck cancer treatment				
	10008	POP-038	Comparison of two different deep learning-based automatic contouring software for prostate cancer patients	AI (Radiotherapy) 1	4月12日（金）	11:00-11:50	418
	10016	POP-039	Evaluation of automated treatment planning software using deep learning for advanced lung cancer patients				
	10023	POP-040	Development of MVCA-Planning (Multi-Vendor Compatible AI Planning) for elimination of cancer-care disparities for radiation therapy				
	10021	POP-041	Development of automated contouring AI with fuman feedback function using stacking ensamble and partial training for head and neck radiotherapy				
	10027	POP-042	Development of fast and accurate deep learning-based dose calculation algorithm in proton therapy	Particle 1	4月12日（金）	16:10-17:10	419
	10028	POP-043	Comparisons of dose distributions, irradiation time, and optimization time for various beam parameters in arc proton pencil beam scanning				
○	10048	POP-044	Availability of beam log data based dose distribution in proton beam scanning irradiation for patient QA				
○	10057	POP-045	A study of acquisition of carbon ion CT image using BGO scintillator and CMOS camera				
○	10076	POP-046	In silico study of LET optimization toward clinical trial for multi-ion particle therapy for bone and soft tissue sarcomas				

	10064	POP-047	Development of a gamma passing rate prediction method using plan complexity features for virtual patient-specific QA	AI (Radiotherapy) 2	4月13日（土）	9:00-9:50	418
	10022	POP-048	Validation of Monte Carlo Geant4 multi-threading efficiency for LINAC therapeutic beams on Windows platform				
	10049	POP-049	Study of predicted dose distribution in multi volume using slice stacking and shape emphasizing AI for automation of treatment planning				
	10005	POP-050	How to evaluate the high dose-gradient region: A proposition method using Lie derivative				
	10015	POP-051	Spot position verification for patient-specific QA using log file	Particle 2	4月13日（土）	10:00-11:00	419
	10034	POP-052	Overview of commissioning for linear energy transfer painting with carbon-ion therapy				
	10038	POP-054	Commissioning of microdosimeter with linear energy transfer painting with scanned carbon-ion radiotherapy				
	10054	POP-072	Measurement of linear energy transfer with microdosimeter in patient-specific quality assurance of carbon-ion radiotherapy				
	10063	POP-055	Preparation of experiment environment for heavy ion FLASH and its application to the creation of 3D modulated FLASH dose distribution				
	10058	POP-056	Priority of linear accelerator quality assurance after an earthquake using Failure mode and effects analysis	Brachytherapy (Miscellaneous)	4月14日（日）	9:00-10:00	418
	10009	POP-057	Development Toward a Domestic RALS: Characteristics and Clinical Evaluation of Offset Gd-153 Sources				
	10029	POP-058	Improving the accuracy of high dose-rate Ir-192 source 3D position detection by machine learning				
○	10036	POP-059	Survey results for 'Connecting Youth and Professionals in Medical Physics'				
○	10075	POP-060	Verification of TBI dose distribution by Radixact using ArcCHECK				
○	10037	POP-061	A feasible study for classification of acute radiation-induced xerostomia risk based on a dosiomics	Radimics	4月14日（日）	9:00-9:50	419
	10046	POP-062	Interpretable Radiomics: Deciphering Biochemical Signatures through Radiogenomics				
	10066	POP-063	Development of Hybrid CNN-Transformer Model for Synthesizing multi-contrast MR images of Stroke Patients and Detectability Evaluation through Segmentation				
○	10074	POP-064	Discrimination of the pulmonary nodules using the chest CT image features by homology method				
	10017	POP-065	Neutron energy spectrum estimation method using thermal neutron flux distribution in water phantom	BNCT	4月14日（日）	10:10-11:00	418
	10026	POP-066	Measurement for the neutron beam of iBNCT001, a linac-based BNCT demonstration device in Tsukuba				
○	10071	POP-067	Accelerating simulation of epithermal neutron dose distribution using deep learning				
○	10073	POP-068	Research on surface neutron dose distribution measurement technology in BNCT				
	10025	POP-069	Simple quality assurance of monitor unit when changing treatment room	Particle 3	4月14日（日）	10:10-11:00	419
○	10050	POP-070	Improvement of multiple safety barrier for multi-ion therapy with event tree analysis				
○	10051	POP-071	Roadmap to the first multi-ion therapy for head and neck cancer using carbon-, oxygen-, and neon-ion beams				
	10035	POP-053	Four-dimensional respiratory movement of liver at supine and standing positions for upright radiotherapy				