JSMP129採択演題一覧表

Submission No.	演題番号	演 題 名（英）	セッション名	発表日	時間	部屋
10066	POP-001	Accurate Measurement of Dose and Dose Rate for Carbon Beam FLASH Effect Research	Dosimetry (Particle)	4月10日（木）	11:00-11:30	418
10025	POP-002	Verification of LET dependence of ion recombination correction factor for FLASH monitor				
10052	POP-003	Validation of commissioning data for newly released state-of-the-art scanned proton therapy system				
10038	POP-004	Comparison of CT number to stopping power ratio conversion methods in dose calculation of carbon ion therapy	Dose Evaluation (Particle-1)	4月10日（木）	13:00-13:50	418
10064	POP-005	Dosimetric evaluation of MR-derived synthetic CT for carbon ion treatment planning				
10077	POP-006	Dose evaluation using monte carlo calculations with whole-body patient CT data for retrospective dose analysis in carbon ion radiotherapy				
10003	POP-007	Implementation of MRI-based elemental composition data to Monte Carlo simulation for yielding positron emitters in proton therapy				
10073	POP-008	Evaluation of the effect of differences in calculation parameters on LET and lineal energy distribution in proton therapy				
10008	POP-009	Experimental validation of 4D dynamic dose calculation method to deal with simulated amplitude changes over time in scanned proton therapy	Dose Evaluation (Particle-2)	4月10日（木）	14:00-14:50	418
10034	POP-010	Evaluating the accuracy of dose calculation in proton therapy using energy absorbers				
10062	POP-011	Determination of irradiation dose and measurement time for range verification using PET: toward establishing "pre-irradiation" procedure in proton therapy				
10045	POP-012	Time-saving proton therapy planning system using diagnostic CT and deformable image registration				
10010	POP-013	Beam modeling of the new scanned proton therapy system at Central Japan International Medical Center				
10039	POP-014	Conceptualization of ionization dose to water to quantify radiation therapy doses	Particle Therapy	4月10日（木）	15:00-15:50	418
10016	POP-015	Initial simulation study on proton beam imaging with flat panel detector				
10009	POP-016	Dynamic collimation with multi-leaf collimator in scanned proton therapy for liver cancer				
10053	POP-017	Development and implementation of mesh ripple filter for multi-ion therapy				
10056	POP-018	Current status of ultra-high dose-rate (FLASH) research in Japan				
10005	POP-019	High dose rate 192Ir brachytherapy source model Monte Carlo dosimetry: mHDR-v2 and mHDR-v2r	Brachytherapy	4月11日（金）	8:00-8:40	418
10031	POP-020	Study on Body Movement Measurement for Confirming Internal Source Position in High Dose-Rate Brachytherapy				
10017	POP-021	Usefulness of CT scans of plastic applicators for HDR brachytherapy QA				
10023	POP-022	Energy response characteristic of radiophotoluminesce dosimeter to establish the postal audit in brachytherapy				
10072	POP-023	Underwater Measurement of X-rays from Linear Accelerator using UVC Camera	Dosimetry (Photon)	4月11日（金）	15:30-16:00	419
10051	POP-024	On the use of bolus for electron-streaming dose measurements on a 1.5 T MR-Linac and dose reduction superficial in radiotherapy				
10032	POP-025	Impact of updating LINAC and the primary standard on the results of absorbed dose to water calibration				
10057	POP-026	Quality assessment of radiotherapy treatment plans created by qualified treatment planning support staffs in Intensity Modulated Radiation Therapy in Japan	Treatment Plannning (Photon)	4月11日（金）	16:10-17:00	419
10065	POP-027	Impact of Isocenter Position and Gantry Rotation Angle on Dose Distribution in VMAT Treatment Planning				
10046	POP-028	Evaluation of AI automated plans for different treatment planning policies of the VMAT for advanced lung cancer				
10027	POP-029	Evaluation of radiation therapy planning assistant software for postoperative uterine cervical cancer				
10033	POP-030	Towards a simulation-less approach to MR image-guided adaptive radiation therapy for prostate cancer				
10047	POP-031	Development of a rapid independent dose verification system for online adaptive radiation therapy using Monte Carlo simulation.	Dose Evaluation (Photon)	4月11日（金）	17:10-17:50	419
10022	POP-032	Impact of image uniformity of magnetic resonance imaging on three-dimensional dose distribution measurement using a polymer gel dosimeter				
10069	POP-033	Effect of dose rate changes on beam alignment in medical linear accelerators				
10067	POP-034	Development of Evaluation and Verification Methods for Y-axis Dose Distribution in Helical Tomotherapy				
10024	POP-035	Development of a High-Precision Medical Image Synthesis Model Using Transformer-Enhanced Patch-Based Contrastive Learning Applicable to Unpaired Images	Image Informatics (AI)	4月12日（土）	10:00-10:50	418
10074	POP-036	Feasibility study of non-invasive prediction of hypoxic tumor cells based on radiomics analysis				
10036	POP-037	A Novel Bias-Harmonized and Interpretable Radiomics-Based Prognostic Prediction Model for Head and Neck Cancer Patients				
10058	POP-038	Topological radiomics feature-based classification for histological subtypes of non-small cell lung cancer using dual energy CT				
10029	POP-039	Development of a Result-Intervention System for Organ Segmentation in CT Images Using the Superpixel Method				

10076	POP-040	Expression of 2-D AKAIKE information criteria and its application to radiation therapy	Medical Information	4月12日（土）	10:00-10:30	419
10002	POP-041	Feasibility of 1-to-N Convolutional Neural Network Facial Recognition for Patient Identification in Radiation Therapy				
10042	POP-042	Virtual clinical trial based on recurrence prediction model using virtual data created by modified Mixup in oropharyngeal cancer patients				
10048	POP-043	Fundamental Evaluation of Deep-Learning based Reconstruction CT for Radiotherapy Treatment Planning	Diagnostic CT	4月12日（土）	10:40-11:50	419
10001	POP-044	Verification of correlation between patient body size index and dose index in CT examination				
10079	POP-045	Comparison of energy integrated detector CT and photon-counting CT on organ dose				
10004	POP-046	A Study of photon-counting X-ray computed tomography scanner and its application to iodine K-edge angiography				
10028	POP-047	Embossed X-ray computed tomography scanner using pixel-shfted dual-energy subtraction				
10026	POP-048	Iodine K-edge angiography using a beam hardening X-ray CT scanner				
10063	POP-049	Exploring the Hidden Risk of Contrast Agent-Induced Radiation Dose Amplification in SECT and DECT				
10011	POP-050	Estimation of the Atomic Number of Metals by CT Metal Artifacts using machine learning	Machine Learning	4月12日（土）	11:00-11:40	418
10015	POP-051	Development of customized AI model for auto-contouring system				
10041	POP-052	Deep learning-based auto-contouring for organs at risk in three-dimensional image-guided brachytherapy for cervical cancer and endometrial cancer				
10070	POP-053	Improving the accuracy of real-time markerless tumor segmentation on beam's-eye view with patient-specific deep learning using orthogonal X-ray fluoroscopic images				
10059	POP-054	Feasibilty study on real-time dosimetry for particle beams using BaTiO3 capacitor dosimeter	Measurement (Instrument)	4月12日（土）	16:10-17:00	418
10061	POP-055	Verification of dose rate dependence of radiophotoluminescence dosimeter in ultra-high dose irradiation (FLASH)				
10020	POP-056	The fundamental characteristics of VIPET gel dosimeter in proton beam measurement				
10019	POP-057	Scintillation imaging for measuring dose distribution of proton beams				
10060	POP-058	LET and Dose Dependence of Cr, Si, and Mg Co-doped Al2O3 Thermoluminescent Plates in Proton Beam Therapy				
10000	POP-059	Shape imaging and response simulation of small pieces of inorganic neutron scintillator using a micro-CT system	Measurement	4月12日（土）	17:10-17:50	418
10040	POP-060	Fundamental study on the impact of the puncture twist angle of light diffusers on the photon fluence distribution in Photoimmunotherapy				
10075	POP-061	Charge Collection Characteristics of Heteroepitaxial Diamond Solid-State Ionization Chambers in the Diagnostic X-Ray Region				
10050	POP-062	Development of high-density 2D matrix dosimeter using BaTiO3 capacitor dosimeter				
10013	POP-063	Establishing QA program for accelerator-based boron neutron capture therapy system	Quality Assurance	4月13日（日）	9:00-9:50	419
10012	POP-064	Development of a practical CTDI measurement method in kV-CT on Tomotherapy				
10049	POP-065	Feasibility Study of Quality Assurance for Surface-Guided Radiation Therapy Using Variable Phantoms				
10043	POP-066	Development and validation of 2.5D gamma analysis for patient-specific quality assurance of film measurements				
10078	POP-067	Development of a Standardized Site Visit Method for Linac Output Audits through Regional Collaboration				
10030	POP-068	Simulation study on the nonlinearity of regularized weighted least squares image reconstruction	Image Informatics	4月13日（日）	10:00-11:00	419
10007	POP-069	Feasibility Study of a Cost-Effective System Using the Perspective-n-Point Problem towards Surface Guided Radiation Therapy				
10037	POP-070	Fundamental study of dynamic x-ray elastography for high spatial resolution internal elasticity mapping.				
10055	POP-071	Development of a mobile patient monitoring system using RGB and depth cameras during radiation therapy irradiation				
10054	POP-072	Analysis of inter-fractional anatomical changes of pelvic organs using deformable image registration in prostate proton therapy				
10071	POP-073	Feasibility of a novel chest and abdomen anthropomorphic phantom for PET exams				
10035	POP-074	Development of spheroid growth evaluation system and mathematical model to investigate the efficacy of radiation therapy	Radiation Biology	4月13日（日）	11:10-12:00	419
10006	POP-075	Effects of intra-tumoral cellular heterogeneity of oxygen partial pressure on biological effectiveness of hydrogen-, helium-, carbon-, oxygen-, and neon-ion beams				
10018	POP-076	Studyof LQ-model parameter of carbon ion therapy for prostate cancer				
10021	POP-077	Evaluation of the impact of both RBE and range variation on biological dose distribution in proton therapy for pancreatic cancer				
10068	POP-078	Development of a modified LET-TCP model for carbon ion radiation therapy of head and neck adenoid cystic carcinoma				