【General Session (Poster)】

P-001. Evaluations of FLASH electron beam characteristics using the electron applicator
Korea Institute of Radiological & Medical Sciences GyuSeok Cho

P-002. Development of Bolus Optimization System for Electron Conformal Therapy
Seoul National University Bundang Hospital Sang-Won Kang

P-003. The novel method to fabricate the patient specific bolus
Sungkyunkwan Unviversity Samsung Changwon Hospital Jeongho Kim

P-004. Development and Validation of a Radiation Therapy Quality Assurance Credentialing System for Clinical Trials in South Korea
Korea Institute of Radiological & Medical Sciences JaeChoon Lee

P-005. Feasibility study of gantry head mounted magnet assembly for an alternative of IORT cone
Department of Radiation Oncology, Asan Medical Center Kihong Pak

P-006. Development of an Algorithm for Chemical Composition Analysis Using Dual-Energy CT
Department of Medicine, Yonsei University College of Medicine,
Seoul, Republic of Korea Jeong Heon Kim

P-007. Influence of surrounding media on electron PDD measurements with reusable PVA-I radiochromic gel dosimeter
Hiroshima Heiwa Clinic Ryosuke Kurihara

P-008. Multi-institution tests in magnetic-resonance image guided-radiotherapy quality assurance by the developed end-to-end phantom
Department of Radiation Oncology, Juntendo University Graduate School of Medicine Kotaro Iijima

P-009. Log File-based Quality Assurance Method for Respiratory Gating Precision in Varian Respiratory Gating for Scanner System
Catholic University, Seoul St.Mary's Hospital Wonjoong Cheon

P-010. Quality assurance of longitudinal dose profiles for helical tomotherapy with an ion chamber array
Pusan National University Hospital Dahl Park

P-011. Feasibility of Optimal Vertex Size and Spacing for Lattice Radiotherapy Implementation Using Helical Tomotherapy
Seoul St. Mary's Hospital Yunji Seol

P-012. Development of megavoltage electron converge system for spot scanning electron beam therapy
Graduate School of Health Sciences, Tokyo Metropolitan University Yuma Hayashi

P-013. Development of alignment test method for high precision medical accelerators
Central Radiology, Izumi City General Hospital Shigeo Anai

P-014. Evaluation of The Usefulness of Integral Quality Monitor for Real-time Patient-tailored QA
Korea Institute of Radiological & Medical Sciences Jung Ju Jo

P-015. Predictive Model Development for Identifying Potential DQA Failures Using Planning Parameters and Dosiomics Features
Ajou University School of Medicine Jina Kim

P-016. Evaluation of Patient-Specific QA Dose Reconstruction Systems Comparing Log File-Based and Measurement-Based Approaches
Ajou University School of Medicine Jina Kim

P-017. Feasibility of Perspective-n-Point method for Surface-Guided Radiation Therapy
Sapporo Kojinkai Memorial Hospital Daisuke Tanii

P-018. Evaluation of the effect of setup errors on Radixact Synchrony tracking system: A phantom study
Iwata City Hospital Masatoshi Miura

P-019. Monte Carlo modelling of a 3 MV medical linac for stereotactic radiosurgery
Dongnam Institute of Radiological and Medical Sciences Dong Hyeok Jeong

P-020. Consistency of dose rates after application of the machine-specific reference field correction factors for Leksell Gamma Knife®

Seoul National University Hyun-Tai Chung

P-021. Changes in patient marker coordinates with high-definition motion management system during frameless gamma knife radiosurgery

Chungbuk National University Hospital Hyeong Cheol Moon

P-022. Initial Clinical Experience and Commissioning of the Zap-X System for Intracranial Radiosurgery in the Republic of Korea

Dongguk University Ilsan Hospital Yunseo Ji

P-023. Impact of Patient Positioning Accuracy on Treatment Outcomes in ZAP-X Radiosurgery System

Dongguk University Ilsan Hospital Yunseo Ji

P-024. Comparative Study of Gamma Knife and Zap-X Radiosurgery Systems for Brain Tumor Treatment

Dongguk university ilsan hospital Yunseo Ji

P-025. The evaluation of relationship between inter- and intra- prostate motion and radiotherapy planning information

Faculty of Health Sciences, Okayama University Medical School,
Okayama University Mizuki Yoshioka

P-026. Evaluation of a phantom for quality Assurance of surface-guided radiation therapy devices utilizing the light-section method

Seirei Hamamatsu General Hospital Tatunori Saito

P-027. Production of All-in-one IGRT phantom for Simultaneous Assessment of Geometrical Accuracy and Image Quality

Department of Radiation Oncology,
Chung-Ang University Gwnag Myeong Hospital Minsoo Chun

P-028. Evaluation of the fiducial marker tracking accuracy in YOLOv5 + deepSORT deep learning framework

Asan Medical Center Yongjin Kim

P-029. Assessing the Feasibility and Efficacy of Linear Accelerator-Based Spatially Fractionated Radiotherapy (SFRT)

Department of Radiation Oncology, Seoul St. Mary's Hospital,
College of Medicine, The Catholic University of Korea Young kyu Lee

P-030. A Phantom Study of Patient-Specific Deep Learning for Liver Tumor Tracking Using Orthogonal X-ray Fluoroscopic Image Pairs

Graduate School of Comprehensive Human Science, University of Tsukuba Ryosuke Nakamura

P-031. Actual Delivered Dose Calculation Technique for Lung SBRT via CBCT Image Acquired during Phase-gated VMAT Delivery

Department of Radiation Oncology and Image-Applied Therapy, Kyoto University Hiraku Iramina

P-032. Feasibility study of split-constant dose rate VMAT in the treatment of left-sided breast cancer

Inje University Sanggye Paik Hospital Jae-Yong Jung

P-033. Assessment of three Auto-Segmentation Contour Software Accuracy using Geometric Metrics for Pelvis Structures

Korean Institute of Radiological and Medical Science School Campus,
University of Science and Technology Vannyat Ath

P-034. Modeling and Validation of Total-Body Irradiation Compensator using Radiological Depth from Computed Tomography Images

Pusan National University Hospital Haryung Park

P-035. Evaluation of the New VOLO Ultra Planning Parameters Using the Dosimetric Quality and Delivery Efficiency for Prostate Cancer

Department of Radiation Onoclogy, College of Medicine, Korea University Eun Jeong Heo

P-036. Inference of areas outside the field of view in CT Images using an image inpainting model

Hokkaido University Shumpei Yamasaki

P-037. Improving the Accuracy of Soft Error Cross Section Evaluation in Particle Therapy
Gunma University Heavy Ion Medical Center Makoto Sakai

P-038. Investigation of radiosensitization effects of boron agents with different subcellular distribution in proton therapy
Nagoya proton therapy center, Nagoya west medical center,
Nagoya City University Mitsuhiro Kimura

P-039. Measurement of spatial distribution of neutrons and gamma rays for BNCT using imaging plate at Kyoto University Reactor
Kyoto Pharmaceutical University Kenichi Tanaka

P-040. Applicability of first collision source method in Monte Carlo dose calculation for BNCT
Kyoto University Takushi Takata

P-041. A model to describe radiation-induced cell death II -Effects of mixed irradiation when the irradiation order is changed-
University of Tsukuba Takeji Sakae

P-042. Theoretical Detection Potential of Array Detectors for Small-Size PBS Proton Beams Based on Detector Resolution and Spot Size
Korea National Cancer Center Jongeun Kim

P-043. Independent Dose Verification System for Carbon-ion Radiotherapy using TOPAS Monte Carlo code
Yonsei University Yongdo Yun

P-044. Dosimetric evaluation for heavy ion radiotherapy in head and neck region with clinical trial of dual energy CT
National Institutes for Quantum Science and Technology Makoto Sakama

P-045. Measurement of linear energy transfer in scanned carbon-ion radiotherapy for patients with pancreatic cancer
QST Hospital Taku Nakaji

P-046. Fundamental characteristic of monitor for carbon FLASH therapy about general recombination
Osaka University Graduate School of Medicine Naoki Ishino

P-047. Study of In-vivo Dosimetry for Proton Therapy using Deep Learning
Proton Therapy Center, Fukui Prefectural Hospital Keiichiro Matsushita

P-048. Development of an Airtight Cell Culture Container for Enhanced FLASH Studies
Sumitomo Heavy Industries, Ltd. Shinji Nomura

P-049. Beam size dependency of Ultra-high dose rate
Sumitomo Heavy Industries, Ltd. Nagaaki Kamiguchi

P-050. Feasibility Study of In-beam PET-based Range Verification for Carbon-ion Radiotherapy using Geant4
Yonsei University College of Medicine Seokho Lee

P-051. Monte Carlo Calculation of Secondary Particle Contribution to Depth Dose Curve for 252 MeV Proton and 250 MeV/u Helium ion Beams
Dongnam Institute of Radiological & Medical Sciences Kyoung Won Jang

P-052. Clinical Application of GPGPU-Based Full Monte Carlo Simulation at Nagoya Proton Therapy Centre
Nagoya Proton Therapy Center Chihiro Omachi

P-053. Requirements for the particle therapy system simulation framework in the era of data science
National Institute of Technology, Toyama College Tsukasa Aso

P-054. Evaluation of the radiosensitization effect of gold nanoparticles on plasmid DNA damage induced by therapeutic carbon ion beams
Graduate School of Medicine, Nagoya University Katsunori Yogo

P-055. Development of Volumetric Imaging Technique for Real-time Image-guided Radiation Therapy
Graduate School of Engineering, Hokkaido University
Division of Quantum Science and Engineering Takumi Inakoshi

P-056. Development of a deep learning-based dose conversion model adopted for various tumor sites in proton beam therapy
Southern Tohoku Proton Therapy Center Ryohei Kato

P-057. Validation of dose calculation accuracy of TPSs focus on dose calculation algorithm and irradiation field formation method
Nagoya Proton Therapy Center Hideto Kino

P-058. Analysis of inter-fractional anatomical changes of pelvic organs using deformable image registration in prostate radiotherapy
University of Tsukuba Shuto Uematsu

P-059. A Study of Mixture Dosimeter of Photoconductor and Scintillator Material for Quality Assurance of Radiation Therapy
Seoul National University Bundang Hospital Moo-Jae Han

P-060. Dose verification and calibration of EPR/alanine dosimeter in electron beams used in radiotherapy linear accelerator.
Dongnam Institute of Radiological & Medical Sciences (DIRAMS) Jung Ki Kim

P-061. Evaluation of optically stimulated luminescence dosimeter (OSLD) for total skin electron beam therapy (TSEBT) using 4 MeV
Yeungnam University Medical Center Sung Yeop Kim

P-062. TL and OSL characteristics of BeO ceramic plates in BNCT irradiation fields
Tokyo Metropolitan University Mitsuki Kawane

P-063. Effect of high-Z element on the dose-response of PVA-Iodide-type radiochromic gel dosimeter
Hiroshima International University Shin-ichiro Hayashi

P-064. Temperature characteristics of a polyvinyl alcohol-iodide radiochromic gel dosimeter
University of Tsukuba Mizuki Kanai

P-065. Study for usefulness of the Water-Equivalent Phantom for Film Dosimetry in a Clinical Linear Accelerator
Korea Institute of Radiological and Medical Sciences Soon Sung Lee

P-066. Improvement of Flexible Film Dosimeter Performance by Incorporating Antioxidants and Aluminum Oxide
Seoul National University Hospital Chang Heon Choi

P-067. FLUORESCENT Ink Tattoos and UV Lamp System for Radiation Treatment Patients.
Seoul National University Hospital Chang Heon Choi

P-068. Measurement of the total charge-changing cross-sections for therapeutic carbon beam
Research Institute of Nuclear Engineering, University of Fukui Ryuki Mishima

P-069. Identifying decay modes in fragmentation reactions of therapeutic carbon beam
Research Institute of Nuclear Engineering, University of Fukui Yosuke Iwasaki

P-070. Low MU dose rate measurement in a linear accelerator using a UVC camera
Tokyo Metropolitan University Atsushi Myojoyama

P-071. Development of 4D tracking system for ir-192 source using GPU-based accelerated reconstruction algorithm and compact gamma camera
Inha University Hospital Boram Lee

P-072. Preliminary Study of Picosecond Resolution Time of Flight Measurement Using MRPC for Particle Therapy
Yonsei University Woochan Lee

P-073. Construction and Evaluation of FLASH Proton Beam system in MC-50 Cyclotron
Korea Institute of Radiological & Medical Sciences, Republic of Korea Youngjae Jang

P-074. Development of external dosimetry audit for heavy ion radiotherapy using radio photoluminescent glass dosimeters
Juntendo University Sota Takauji

P-075. Linear energy transfer (LET) and field size dependence of a radiophotoluminescent glass dosimeter for carbon beams

Graduate school of Health Science, Juntendo University Ryo Watanabe

P-076. Experimental investigation of a novel approach for rapid and safe annealing of radiophotoluminescence glasses

Research Institute for Radiation Biology and Medicine,
Hiroshima University, Hiroshima, Japan Soheil Aghabaklooei

P-077. Development of Collapsed Cone Convolution Algorithms in Dose Calculations for High Dose Rate Brachytherapy

Department of Biomedical Engineering and Department
of Biomedicine & Health Sciences, College of Medicine,
The Catholic University of Korea, Seoul, South Korea Dongsan Kang

P-078. Establishing Quality Assurance Protocol for Medical Linear Accelerator Based on 2D Ionization Chamber Array

Asan Medical Center Uiseob Lee

P-079. Clinical Evaluation of Patient-Specific 3D Boluses Fabricated Using 3D Printed Molds and Casting Method

Seoul National University Hospital Sung Young Lee

P-080. Experimental Investigation of a Compact Epi-thermal Neutron Flux Measurement System for Real-time Beam Monitoring in BNCT

Division of Sustainable Energy and Environmental Engineering,
Graduate School of Engineering, Osaka University Jiye Qiu

P-081. Development of 6Li-loaded water-based liquid scintillator for the detection of secondary neutron in particle therapy

Nagoya City University Yoshiaki Kibe

P-082. Characterization of Ultra-High-Dose-Rate Electron Beam Irradiation Device for Preclinical Flash Radiotherapy Studies

Research Center, Dongnam Institute of Radiological & Medical Sciences Hyun Kim

P-083. Validation of the performance of dosimetry methods in proton FLASH radiotherapy

National Cancer Center (Korea)/Hanyang University Chae-Eon Kim

P-084. Development of a Recording System for CBCT Imaging Dose during Pediatric Radiation Therapy and Angle Optimization Testing

Inje University Sanggye Paik Hospital Dong-Jin Kang

P-085. Influence of storage environment on the distortion of the incident window of the horizontal beam water phantoms

Nagoya City University West Medical Center Akihito Shimizu

P-086. Dosimetric effects of small field size, dose grid size, and variable split-arc methods on gamma pass rates in radiation therapy

Yuuai Medical Center Tsunekazu Kuwae

P-087. Validation of approximate formulas for optimal organ absorbed dose estimation in CT examination

Department of Radiology and Radiation Oncology,
Tokyo Medical University Ibaraki Medical Center Masato Takanashi

P-088. Workload-based Radiation Shielding Optimization in Helical Tomotherapy Vaults

Hanyang University, Department of Nuclear Engineering Wonhyeong Lee

P-089. Comparison of Nuclear Data Library for Concrete Activation in a Large Accelerator Facility using PHITS

Department of Nuclear Engineering, Hanyang University Euna Lee

P-090. A Study on Rapid Radiation Source Tracking Using Multiple Radiation Spectroscopy Detectors

Department of Multidisciplinary Radiological Science,
Dongseo University, Busan 47011, Republic of Korea Hyundong Kim

P-091. Evaluation of the usefulness of Brain-Age-Gap as a biomarker for brain dementia diagnosis
Graduate School of Health Science, Juntendo University, Tokyo, Japan Shuto Minamikawa

P-092. Evaluation of gamma ray reduction using tungsten-containing rubber for shielding 177Lu emission: A study on practical thickness
Department of Radiology, Kansai Electric Power Hospital Katsuya Okuhata

P-093. Optimal reconstruction algorithm for FDG-PET images using CaLM
Graduate School of Health Science, Juntendo University Junpei Suzuki

P-094. Development and Application of 3D Anatomy Educational Material via Metaverse and XR for Remote Telemedicine Training
Yonsei University College of Medicine DongHyeok Choi

P-095. Establishment of a Lymphoma Quantitative Evaluation System using Radiomics in PET/CT images
Yonsei University College of Medicine DongHyeok Choi

P-096. Development of Two-Layer DOI Detector With a Light Guide Inserted Between the Layers
Dongseo University Seungjae Lee

P-097. Comprehensive image quality comparison of conventional and new flat panel detectors under bedside-radiography beam conditions
Gunma Prefectural College of Health Sciences Sho Maruyama

P-098. Experimental Study of Correlation between Exposure Index and Noise on Chest Radiography at Different Tube Voltages
Department of Health Sciences, Faculty of Medical Sciences,
Kyushu University Nobukazu Tanaka

P-099. Hybrid Approach Integrating Radiomics and Deep Learning from CT Scans for Histological Subtype Classification of NSCLC
Department of Bioengineering, Korea University, Seoul, Republic of Korea Geon Oh

P-100. Performance Evaluation of Automatic Segmentation based on Deep Learning and Atlas according to CT Image Acquisition Conditions.
Konyang University Hospital, Department of Radiation Oncology Jongwon Kim

P-101. Evaluation of HU values in MRI-based synthetic CT on planning quality in proton therapy
Chungbuk National University Hospital Byung Jun Min

P-102. Optimizing Adaptive Radiotherapy in Breast Cancer Patients Using Synthetic CT for Accurate Dose Evaluation
Ewha Womans University Computational Medicine Soeun Choi

P-103. Development of xSPECT Radiomics Model for Differentiating Metastasis and Benign Bone Diseases Using Principal Component Analysis
Ewha Womans University Computational medicine Soeun Choi

P-104. Automatic Segmentation and Contrast Enhanced Images Generation for HCC on CT images using Deep Neural Networks
Fukui Prefectual Hospital Proton Therapy Center Yoshikazu Maeda

P-105. Study of auto segmentation accuracy using a transferred U-net for CT-image guided prostate cancer proton treatment
Fukui Prefectual Hospital Proton Therapy Center Yoshikazu Maeda

P-106. Prediction of Patient Anatomy from the Surface for Surface-guided Radiotherapy
Yonsei University College of Medicine Younghun Yoon

P-107. AI Segmentation Model Specialized for a Single Institution
Korea University YouSun Ko

P-108. Boosting Medical Image Quality with Knowledge Distillation in Diffusion Models for Imbalanced Datasets
KAIST Joonil Hwang

P-109. Feasibility Analysis for Predicting Lung Cancer Overall Survival Using Radiomic Features Extracted from Multi-Modal Medical Images

Proton Therapy Center, National Cancer Center Meangee Kim

P-110. Evaluation of the device-dependent impact of single-device data on an automated segmentation model based on generalized data sets.

Department of Bio-medical Engineering, Korea University,
Seoul, Republic of Korea Hyeongjin Lim

P-111. Memory Consumption Reduction in 3D U-Net for Medical Image Segmentation Using Patch-Based Method

Teikyo University Masaya Matsuki

P-112. Development of a database and analysis environment for quality management in high-precision radiotherapy

Showa University Graduate School of Health Sciences Taichi Wada

P-113. High-dimensional Data Visualizer: An integrated toolbox of visualizing high dimensional medical data

Teikyo University Yifei Li

P-114. A review of radiotherapy and fertility using problem-solving therapy approach

Faculty of Health Sciences, Okayama University Medical School,
Okayama University Yuiko Kato