

Talks and Posters

featuring Standard Imaging products

at AAPM 2018

Exradin Scintillators

SU-I-GPD-T-366	<p>Validation of Linac Small-Field Commissioning with a Commercial Plastic Scintillator Detector</p> <p>J Van Schelt*, A Templeton, D Bernard, G Cifter, J Turian</p> <p>Rush University Medical Center, Chicago, IL</p>
TU-C1030-GePD-F4-3	<p>Characterization of Plastic Scintillator W2 Detector in Small Field Dosimetry</p> <p>P Galavis*, L Hu, I Das,</p> <p>NYU Langone Health, New York, NY</p>
WE-C930-GePD-F3-5	<p>Validation of Inhomogeneity Correction in Small Field</p> <p>L Hu*, P Galavis, I Das,</p> <p>NYU Langone Medical Center, New York, NY</p>
MO-E115-GePD-F3-5	<p>Unsettled Issues, Distance and Depth of Measurements of Output Factor (f_{clin}, f_{msr}) in Small Field Dosimetry</p> <p>I Das^{1*}, P Galavis¹, L Hu¹, P Francescon²</p> <p>(1) NYU Langone Medical Center, New York, NY</p> <p>(2) Ospedale Di Vicenza, Vicenza, Italy</p>
SU-I-GPD-T-414	<p>Dosimetric Leaf Gap and Transmission for Millennium 120-Leaf MLC On Varian TrueBeam</p> <p>Johnson Darko^{1,2,3*}, Patricia Bui², Dinindu Gunasekara², Andre Fleck^{1,3}, Ernest Osei^{1,2,3}</p> <p>(1) Grand River Regional Cancer Centre, Kitchener, ON</p> <p>(2) University of Waterloo, Waterloo, ON</p> <p>(3) University of Guelph, Guelph, ON</p>
WE-C1030-GePD-F7-6	<p>Variation of Detector Specific Output Correction Factors for Small Fields From Different Linacs/collimation Systems</p> <p>E Gershkevitsh^{1*}, N Mendez², B Casar³,</p> <p>(1) North Estonia Regional Hospital, Tallinn</p> <p>(2) Oncology Institute of Ljubljana, Ljubljana</p> <p>(3) Oncology Institute of Ljubljana, Ljubljana</p>

Exradin Ion Chambers

TH-EF-KDBRA1-2	<p>An Investigation of Patient Plan-Specific Correction Factors for Three Ion Chambers in Collapsed Composite IMRT Treatments Using a PTW MicroDiamond and Monte Carlo Simulations</p> <p>V Desai*, Z Labby, W Culberson</p> <p>University of Wisc Madison, Madison, WI</p>
SU-I-GPD-T-396	<p>Verification of Stereotactic Radiation Therapy Plan with Small Fields by Using Portal Dosimetry and A26 Ionization Chamber</p> <p>D Zhu , Z Huang*, Y Feng</p> <p>East Carolina Univ, Rockville, MD</p>
SU-I-GPD-T-310	<p>Evaluation of Methods for Quality Assurance Checks of Ionization Chambers</p> <p>A Walter*, J Hansen, L DeWerd</p> <p>University of WI-Madison, Madison, WI</p>
TU-K-KDBRC-8	<p>Aerrow: A Probe-Format Graphite Calorimeter for Absolute Dosimetry of MR-Guided Radiotherapy Modalities</p> <p>J Renaud^{1*}, A Sarfehnia^{1,2}, J Bancheri¹, J Seuntjens¹</p> <p>(1) McGill University, Montreal, QC (2) Sunnybrook Health Science Center, Toronto, ON</p>
SU-I-GPD-T-5	<p>Use of Conventional Ionization Chambers with Ru-106 Plaques to Transfer Convex Extrapolation Chamber Result for Surface Dose Rate to Clinics</p> <p>J Hansen*, W Culberson, L DeWerd</p> <p>University of Wisconsin-Madison, Madison, WI</p>
SU-I-GPD-T-310	<p>Evaluation of Methods for Quality Assurance Checks of Ionization Chambers</p> <p>A Walter*, J Hansen, L DeWerd</p> <p>University of WI-Madison, Madison, WI</p>
WE-C1030-GePD-F2-1	<p>A Phantom Study to Determine the Dosimetric Effects of the Primary Image Choice Used for SBRT Radiotherapy Planning Following 4DCT Simulation</p> <p>R Teboh Forbang*, B Lewis , A Ndlovu</p> <p>Hackensack University Medical Center, Hackensack, NJ</p>
SU-F-KDBRA2-1	<p>Beam Output Changes After Magnet Ramp Down in a 1.5 T Pre-Clinical MR-Linac</p> <p>H Lee^{1*}, G Bosco², G Ibbott¹,</p> <p>(1) UT MD Anderson Cancer Center, Houston, TX (2) Elekta, Atlanta, GA</p>
MO-I345-GePD-F3-1	<p>Benchmarking of Eclipse Electron Monte Carlo Dose Calculation Algorithm for Smaller Fields and Anthropomorphic Challenges</p> <p>L Muller*, S Ahmad, D Johnson</p> <p>Oklahoma University Health Science Ctr., Oklahoma City, OK</p>

SU-E-207-4	<p>Dependence of Central-Axis Depth Dose On KV and HVL for Modern Diagnostic X-Ray Imaging</p> <p>J Feng^{1*}, L Wagner¹</p> <p>(1) The University of Texas Health Sciences Center at Houston, UT McGovern Medical School, Houston, TX</p>
TU-K-DBRA-3	<p>Development of An Independent Peer Review System for a Small Animal Irradiator</p> <p>M Peters*, R Howell, R Tailor, S Smith, S Kry, J Niedzielski, D Followill, D Craft, T Fujimoto, C Taniguchi, S Krishnan</p> <p>MD Anderson Cancer Ctr., Houston, TX</p>
SU-I-GPD-T-452	<p>Dosimetric Benchmarking of Novel Low-KVp Animal Irradiator</p> <p>I Rutel¹, D Johnson^{2*},</p> <p>(1) University of Oklahoma Health Science Center, Oklahoma City, OK (2) University of Oklahoma HSC, Oklahoma City, OK</p>
SU-I-GPD-P-32	<p>Investigation of Cone Planning and Mask System in Intracranial SRS</p> <p>Y Hu*, T Dou, D Cail, Z Han, P Zygmanski, F Hacker</p> <p>Brigham & Women's Hospital, Boston, MA</p>
SU-I-GPD-T-331	<p>Measurement of Ion-Recombination Effect On Various Detectors for 6MV FFF Beams at Clinac Tray-Level Measurement Setup</p> <p>Ramalingam Kuppuswami^{1*}, Senthilkumar Shanmugam^{2,1}</p> <p>(1) Bharathiar University (2) Madurai Medical College & Govt. Rajaji Hospital, Madurai, Tamilnadu, India</p>
SU-I-GPD-T-363	<p>Polarity Correction Factor and Out of Field Dose Measurement for FFF and FF Beam Using Two Microchambers</p> <p>T Chiu*, B Yang, K Tang, C Cheung, W Lam, K Cheung, S Yu</p> <p>Hong Kong Sanatorium & Hospital, Hong Kong, Hong Kong</p>
WE-C1030-GePD-F7-5	<p>Stereotactic Detector Comparisons for Small Field Relative Dosimetry</p> <p>G Johnson^{1*}, C Malmer¹, B Owen¹, J Garcia-Cobian¹, S Small¹, D King, D Siergie²</p> <p>(1) Northwest Medical Physics Center, Lynnwood, WA (2) University of New Mexico, Albuquerque, NM</p>
TH-AB-KDBRA1-8	<p>Performance of a Doubly-Focused Double-Stack Multi-Leaf Collimator (MLC) System On a MR Guided Linear Accelerator</p> <p>B Cai*, J Cammin, A Price, D Yang, J Park, V Rodriguez, S Mutic, O Green</p> <p>Washington University in St Louis, St Louis, MO</p>
SU-H400-GePD-F4-1	<p>Commissioning and Validation of Brainlab Elements Multiple Metastases with An Elekta Versa HD and ExacTrac</p> <p>B Ruiz*, J Hill, L Boles, Johnson City Medical Center, Johnson City, TN</p>

HDR 1000 Plus Well Chamber

SU-I-GPD-P-52	Calibration of 192Ir High Dose Rate Brachytherapy source Using Water Phantom L Yu, B Yang, X Liu, T Pang, N Liu, B Li, T Dong, B Wang, Z Wang, J Qiu* Peking Union Medical college Hospital, Beijing, China
---------------	---

Lucy 3D QA Phantom

SU-I-GPD-T-382	A Dosimetric Comparison of ICVI Varian Cones and BrainLab Cones R George*, D Saenz, N Kirby, K Rasmussen, S Stathakis, N Papanikolaou Ut Health San Antonio, San Antonio, TX
SU-I-GPD-T-181	Clinical Comparison of Gafchromic EBT-XD Film to Gafchromic EBT3 Film When Utilized as An Absolute Dose Verification Method in Stereotactic Radiotherapy R Goodman MS*, T Murphy, D Siergiej PhD, T Schroeder MD University of New Mexico, Albuquerque, NM
SU-I-GPD-T-373	Experimental Validation of SRS VMAT in Small Volumes. Tolerance Criteria for Plan-Specific QA Verification M Adria-Mora ^{1*} , N Carrasco Vela ¹ , J Bonaque Alandi ¹ , F Ballester ^{2,3} , J Gimeno Olmos ^{1,3} , V Carmona Meseguer ^{1,3} , F Liso Valverde ^{1,3} , J Perez-Calatayud ^{1,3} (1) Hospital Universitari i Politecnic La Fe, Valencia, Spain (2) University of Valencia, Burjassot, Spain (3) Grupo de Investigacion en Fisica Medica IRIMED, UV - Hospital La Fe, Valencia, Spain
TH-AB-KDBRA1-9	Proof of Concept of Kilovoltage Intensity Modulated Radiotherapy B Loughery ^{1*} , R Halford ² , M Snyder ³ (1) Karmanos Cancer Center / Wayne State University, Detroit, MI (2) William Beaumont Health System, Dearborn, MI (3) William Beaumont Health System, Royal Oak, MI

QA StereoChecker

MO-C930-
GePD-F7-1

A Comprehensive Evaluation of the Performance of the CyberKnife M6: A One-Year Study of Daily QA

J Gersh^{1,2}, R Fulkerson^{3*}

- (1) Gibbs Cancer Center & Research Institute - Pelham, Greer , SC
- (2) Spectrum Medical Physics, LLC, Greenville , SC
- (3) RKF Consultants, Dundee, NY

SU-I-GPD-T-380

Implementation of the Electronic Portal Imaging Device for Daily CyberKnife Quality Assurance

L Wang*, A Lo , A Ho

Stanford University Cancer Center, Stanford, CA

SU-I-GPD-T-47

Novel Amorphous Silicon Detector Array for Linear Accelerator Electron Measurements

M Shaikh^{1*}, J Burmeister²

- (1) Rochester General Hospital, Rochester, NY
- (2) Wayne State university School of Medicine, Detroit, MI

QA BeamChecker Plus

MO-C930-
GePD-F7-1

A Comprehensive Evaluation of the Performance of the CyberKnife M6: A One-Year Study of Daily QA

J Gersh^{1,2}, R Fulkerson^{3*}

- (1) Gibbs Cancer Center & Research Institute - Pelham, Greer , SC
- (2) Spectrum Medical Physics, LLC, Greenville , SC
- (3) RKF Consultants, Dundee, NY

Visit Standard Imaging
at AAPM 2018
Booth 733

For more information, visit us at
www.standardimaging.com