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**Task Group 142 report: quality assurance of medical accelerat**

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#	Paper	IF	Citations
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1064	IMRT commissioning: multiple institution planning and dosimetry comparisons, a report from AAPM Task Group 119. <i>Medical Physics</i> , <b>2009</b> , 36, 5359-73	4.4	648
1063	Quality assurance methodology for Varian RapidArc treatment plans. <b>2010</b> , 11, 3164		27
1062	Point/counterpoint. Radiotherapy physicists have become glorified technicians rather than clinical scientists. <i>Medical Physics</i> , <b>2010</b> , 37, 1379-81	4.4	6
1061	Dosimetric characterization of a multileaf collimator for a new four-dimensional image-guided radiotherapy system with a gimbaled x-ray head, MHI-TM2000. <i>Medical Physics</i> , <b>2010</b> , 37, 4684-91	4.4	40
1060	A quality assurance procedure to evaluate cone-beam CT image center congruence with the radiation isocenter of a linear accelerator. <b>2010</b> , 11, 3297		19
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489	Radiotherapy Risk Estimation Based on Expert Group Survey. <b>2019</b> , 7,		1
488	An ultrasound based platform for image-guided radiotherapy in canine bladder cancer patients. <b>2019</b> , 12, 10-16		
487	Factor 10 Expedience of Monthly Linac Quality Assurance via an Ion Chamber Array and Automation Scripts. <b>2019</b> , 18, 1533033819876897		
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484	Metabolic and histopathological changes in the brain and plasma of rats exposed to fractionated whole-brain irradiation. <b>2019</b> , 1708, 146-159		8
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481	Detection of the focal spot motion relative to the collimator axis of a linear accelerator under gantry rotation. <b>2019</b> , 64, 03NT02		2
480	A dosimetric analysis of proton beam therapy using different snouts. <b>2019</b> , 18, 180-185		
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467	Multi-institutional evaluation of end-to-end protocol for IMRT/VMAT treatment chains utilizing conventional linacs. <b>2019</b> , 44, 61-66		3
466	Dosimetric effects of bolus and lens shielding in treating ocular lymphomas with low-energy electrons. <b>2019</b> , 44, 35-42		1
465	Development of a reconstruction methodology for the X-Ray spectrum of a medical LinAc positioning flat panel. <b>2020</b> , 167, 108307		1
464	Comprehensive evaluation of electron radiation dose using beryllium oxide dosimeters at breast radiotherapy. <b>2020</b> , 19, 38-44		3
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462	Technical Note: Investigation of the dosimetric impact of stray radiation on the Common Control Unit of the IBA Blue Phantom. <b>2020</b> , 21, 191-196		
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460	Monitoring linear accelerators electron beam energy constancy with a 2D ionization chamber array and double-wedge phantom. <b>2020</b> , 21, 18-25		3
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458	Prediction of the individual multileaf collimator positional deviations during dynamic IMRT delivery priori with artificial neural network. <i>Medical Physics</i> , <b>2020</b> , 47, 1421-1430	4-4	13
457	Retrospective study on performance of constancy check device in Linac beam monitoring using Statistical Process Control. <b>2020</b> , 25, 91-99		
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453	Assessing the dependency of the uncertainties in the Elekta Agility MLC calibration procedure on the focal spot position. <b>2019</b> , 43, 93		3
452	Comprehensive radiation and imaging isocenter verification using NIPAM kV-CBCT dosimetry. <i>Medical Physics</i> , <b>2020</b> , 47, 927-936	4-4	7
451	Gantry angle dependent beam control optimization of a traveling wave linear accelerator to improve VMAT delivery. <b>2020</b> , 21, 312-321		
450	Technical Note: Performance of CyberKnife tracking using low-dose CT and kV imaging. <i>Medical Physics</i> , <b>2020</b> , 47, 6163-6170	4-4	1
449	Assessing the suitability of a two-dimensional array for routine quality assurance checks of flatness and symmetry. <b>2020</b> , 43, 1451-1460		0
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445	Use of CT simulation and 3-D radiation therapy treatment planning system to develop and validate a total-body irradiation technique for the New Zealand White rabbit. <b>2020</b> , 1-10		3
444	Phantom development for daily checks in electron intraoperative radiotherapy with a mobile linac. <b>2020</b> , 76, 109-116		
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440	Scintillation imaging as a high-resolution, remote, versatile 2D detection system for MR-linac quality assurance. <i>Medical Physics</i> , <b>2020</b> , 47, 3861-3869	4-4	3
439	Beam matching of two linear accelerators, identical model and brand. <b>2020</b> , 1505, 012019		
438	Beam spot position measurement using corotational penumbra modulation and image center shift methods. <b>2020</b> , 1505, 012022		
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426	Commissioning of a 1.5T Elekta Unity MR-linac: A single institution experience. <b>2020</b> , 21, 160-172	21
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424	Assessment of Multi-leaf Collimator Positional Accuracy Using Radiochromic EBT3 Film and an Electronic Portal Imaging Device. <b>2020</b> , 76, 795-801	
423	Clinical Assessment of Prostate Displacement and Planning Target Volume Margins for Stereotactic Body Radiotherapy of Prostate Cancer. <b>2020</b> , 10, 539	13
422	POD-DOSI: A dedicated dosimetry system for GammaPod commissioning and quality assurance. <i>Medical Physics</i> , <b>2020</b> , 47, 3647-3657	4.4 1
421	Dosimetry quality control based on percent depth dose rate variation for checking beam quality in radiotherapy. <b>2020</b> , 25, 484-488	
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415	End-to-end test to evaluate the comprehensive geometric accuracy of a proton rotating gantry using a cone-shaped scintillator screen detector. <b>2020</b> , 13, 144-151		1
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413	The impact of isocentric shifts on delivery accuracy during the irradiation of small cerebral targets-Quantification and possible corrections. <b>2020</b> , 21, 56-64		2
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410	A failure modes and effects analysis quality management framework for image-guided small animal irradiators: A change in paradigm for radiation biology. <i>Medical Physics</i> , <b>2020</b> , 47, 2013-2022	4.4	1
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403	Impact of patient positioning uncertainty in noncoplanar intracranial stereotactic radiotherapy. <b>2020</b> , 21, 89-97		5
402	Assessment of out-of-field doses in radiotherapy treatments of paediatric patients using Monte Carlo methods and measurements. <b>2020</b> , 71, 53-61		3
401	Performance of a linear accelerator couch positioning quality control task using an electronic portal imaging device. <b>2020</b> , 13, 195-200		0

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398	Long-term stability of a three-dimensional dose verification system. <b>2020</b> , 13, 83-91			1
397	Quality assurance of isocentres for passive proton beam nozzles using motion capture cameras. <b>2020</b> , 70, 139-144			1
396	Strategies for effective physics plan and chart review in radiation therapy: Report of AAPM Task Group 275. <i>Medical Physics</i> , <b>2020</b> , 47, e236-e272	4.4		23
395	Long-term Inter-protocol kV CBCT image quality assessment for a ring-gantry linac via automated QA approach. <b>2020</b> , 6, 015025			1
394	3D isocentricity analysis for clinical linear accelerators. <i>Medical Physics</i> , <b>2020</b> , 47, 1460-1467	4.4		4
393	Assessment of error in the MV radiation isocenter position calculated with the Elekta XVI software. <b>2020</b> , 21, 93-97			1
392	An integrated quality assurance phantom for frameless single-isocenter multitarget stereotactic radiosurgery. <b>2020</b> , 65, 115006			2
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390	An end-to-end test for MR-guided online adaptive radiotherapy. <b>2020</b> , 65, 125012			7
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387	Boundary Coding Representation for Organ Segmentation in Prostate Cancer Radiotherapy. <b>2021</b> , 40, 310-320			5
386	Adaptive Radiation Therapy (ART) Strategies and Technical Considerations: A State of the ART Review From NRG Oncology. <b>2021</b> , 109, 1054-1075			19
385	Performance of a multileaf collimator system for a 1.5T MR-linac. <i>Medical Physics</i> , <b>2021</b> , 48, 546-555	4.4		2
384	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. <i>Medical Physics</i> , <b>2021</b> , 48, e44-e64	4.4		6
383	Comparison and evaluation of distortion correction techniques on an MR-guided radiotherapy system. <i>Medical Physics</i> , <b>2021</b> , 48, 691-702	4.4		0

382	Clinical commissioning of intensity-modulated proton therapy systems: Report of AAPM Task Group 185. <i>Medical Physics</i> , <b>2021</b> , 48, e1-e30	4-4	5
381	Dosimetry audits in Taiwan radiotherapy departments. <b>2021</b> , 3, 20210002		
380	EPID-based 3D dosimetry for pre-treatment FFF VMAT stereotactic body radiotherapy plan verification using dosimetry Check. <b>2021</b> , 81, 227-236		2
379	Assessing the robustness of artificial intelligence powered planning tools in radiotherapy clinical settings-a phantom simulation approach. <b>2021</b> , 11, 4835-4846		0
378	Risk Management of Clinical Reference Dosimetry of a Large Hospital Network Using Statistical Process Control. <b>2021</b> , 10, 119-131		
377	Consistency of small-field dosimetry, on and off axis, in beam-matched linacs used for stereotactic radiosurgery. <b>2021</b> , 22, 185-193		1
376	Effect of Multileaf Collimator Leaf Position Error Determined by Picket Fence Test on Gamma Index Value in Patient-Specific Quality Assurance of Volumetric-Modulated Arc Therapy Plans. <b>2021</b> , 13, e12684		
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374	Recent Advances and Clinical Applications of Plastic Scintillators in the Field of Radiation Therapy. <b>2021</b> , 425-460		1
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366	Impact of slice thickness, pixel size, and CT dose on the performance of automatic contouring algorithms. <b>2021</b> , 22, 168-174		2
365	Improved performance of N-(Hydroxymethyl)acrylamide gel dosimeter using potassium chloride for radiotherapy. <b>2021</b> , 142, 106542		5



364	Optimization design of O-ring linear accelerator gantry and mechanical isocenter detection method. <b>2021</b> , 92, 033308		
363	Electron Beam Profile Assessment of Linear Accelerator Using Startrack Quality Assurance Device. <b>2021</b> , 1829, 012015		
362	Measurements of Electron Beam Dose Distributions in Perspex Block for Different Field Size. <b>2021</b> , 1829, 012025		
361	Technical Challenges of Real-Time Adaptive MR-Guided Radiotherapy. <b>2021</b> , 11, 634507		8
360	A Modular System for Treating Moving Anatomical Targets With Scanned Ion Beams at Multiple Facilities: Pre-Clinical Testing for Quality and Safety of Beam Delivery. <b>2021</b> , 11, 620388		4
359	Technical Note: An alternative approach to verify 6FFF beam dosimetry for Ethos and MR Linac without using a 3D water tank. <i>Medical Physics</i> , <b>2021</b> , 48, 1533-1539	4.4	1
358	Dosimetric analysis on the effect of tumor motion in IMRT for liver cancer: comparison of TomoTherapy and VMAT using the Delta4 Hexa-Motion system. <b>2021</b> , 79, 477-484		0
357	Report of Task Group 201 of the American Association of Physicists in Medicine: Quality management of external beam therapy data transfer. <i>Medical Physics</i> , <b>2021</b> , 48, e86-e114	4.4	1
356	Machine QA for the Elekta Unity system: A Report from the Elekta MR-linac consortium. <i>Medical Physics</i> , <b>2021</b> , 48, e67-e85	4.4	9
355	3D dosimetric validation of ultrasound-guided radiotherapy with a dynamically deformable abdominal phantom. <b>2021</b> , 84, 159-167		2
354	A robotically assisted 3D printed quality assurance lung phantom for Calypso. <b>2021</b> , 66,		0
353	A Novel Machine Learning Model for Dose Prediction in Prostate Volumetric Modulated Arc Therapy Using Output Initialization and Optimization Priorities. <b>2021</b> , 4, 624038		1
352	A patient risk model to determine the optimal output constancy check frequency for a radiotherapy machine. <b>2021</b> , 84, 192-197		0
351	Dosimetric accuracy of dual isocenter irradiation in low magnetic field resonance guided radiotherapy system for extended abdominal tumours. <b>2021</b> , 84, 149-158		1
350	Prospective dual-surrogate validation study of periodic imaging during treatment for accurately monitoring intrafraction motion of prostate cancer patients. <b>2021</b> , 157, 40-46		1
349	Effects of B eddy currents on imaging isocenter shifts in 0.35-T MRI-guided radiotherapy (MR-IGRT) system. <i>Medical Physics</i> , <b>2021</b> , 48, 2929-2938	4.4	2
348	Evaluation of monoxide film-based dosimeters for surface dose detection in electron therapy. <b>2021</b> , 16, e0251441		1
347	Three-dimensional dose-distribution measurement of therapeutic carbon-ion beams using a ZnS scintillator sheet. <b>2021</b> , 62, 825-832		2

346	Visual Isocenter Position Enhanced Review (VIPER): a Cherenkov imaging-based solution for MR-linac daily QA. <i>Medical Physics</i> , <b>2021</b> , 48, 2750-2759	4.4	1
345	On the MLC leaves alignment in the direction orthogonal to movement. <b>2021</b> , 22, 268-273		1
344	Survey on utilization of flattening filter-free photon beams in Japan. <b>2021</b> , 62, 726-734		0
343	Application programming interface guided QA plan generation and analysis automation. <b>2021</b> , 22, 26-34		0
342	Dosimetric leaf gap and leaf trailing effect in a double-stacked multileaf collimator. <i>Medical Physics</i> , <b>2021</b> , 48, 3413-3424	4.4	1
341	Delta Discover transmission detector: A comprehensive characterization for in-vivo VMAT monitoring. <b>2021</b> , 85, 15-23		1
340	AAPM Task Group 198 Report: An implementation guide for TG 142 quality assurance of medical accelerators. <i>Medical Physics</i> , <b>2021</b> , 48, e830-e885	4.4	7
339	Beam energy metrics for the acceptance and quality assurance of Halcyon linear accelerator. <b>2021</b> , 22, 121-127		0
338	Advances in Pediatric Radiation Oncology: Proton Therapy. <b>2021</b> , 1, 155-167		
337	Investigation of absolute dose calibration accuracy for TomoTherapy using real water. <b>2021</b> , 22, 139-145		0
336	A novel method to determine linac mechanical isocenter position and size and examples of specific QA applications. <b>2021</b> , 22, 44-55		0
335	Implementation of free breathing respiratory amplitude-gated treatments. <b>2021</b> , 22, 119-129		0
334	Technical assessment of the NDI Polaris Vega optical tracking system. <b>2021</b> , 16, 87		0
333	8+ Year Performance of the Gamma Knife Perfexion/Icon Patient Positioning System and Possibilities for Preemptive Fault Detection Using Statistical Process Control. <i>Medical Physics</i> , <b>2021</b> , 48, 3425-3437	4.4	2
332	Survey of patient-specific quality assurance practice for IMRT and VMAT. <b>2021</b> , 22, 155-164		1
331	Design and characterization of a prototype tertiary device for proton beam stereotactic radiosurgery. <b>2021</b> , 7,		
330	Fundamental study on quality assurance (QA) procedures for a real-time tumor tracking radiotherapy (RTRT) system from the viewpoint of imaging devices. <b>2021</b> , 22, 165-176		
329	A regression-based approach to compute the pixels sensitivity map of linear accelerator portal imaging devices. <i>Medical Physics</i> , <b>2021</b> , 48, 4598-4609	4.4	2

328	Commissioning of and preliminary experience with a new fully integrated computed tomography linac. <b>2021</b> , 22, 208-223		1
327	Development and Longitudinal Analysis of Plan-Based Streamlined Quality Assurance on Multiple Positioning Guidance Systems With Single Phantom Setup. <b>2021</b> , 11, 683733		1
326	Acceptance procedure for the linear accelerator component of the 1.5 T MRI-linac. <b>2021</b> , 22, 45-59		3
325	Stereotactic radiosurgery commissioning and QA test cases-A TG-119 approach for Stereotactic radiosurgery. <i>Medical Physics</i> , <b>2021</b> ,	4.4	0
324	Medical X-band linear accelerator for high-precision radiotherapy. <i>Medical Physics</i> , <b>2021</b> , 48, 5327-5342	4.4	2
323	An investigation of using log-file analysis for automated patient-specific quality assurance in MRgRT. <b>2021</b> , 22, 183-188		3
322	Dosimetric effects of quality assurance-related setup errors in passive proton therapy for prostate cancer with and without a hydrogel spacer. <b>2021</b> , 14, 328-335		
321	Investigation of pixel scale calibration on the Elekta iView electronic portal imager. <b>2021</b> , 22, 148-155		2
320	Verification of field match lines in whole breast radiation therapy using Cherenkov imaging. <b>2021</b> , 160, 90-96		0
319	Stereotactic body radiation therapy for non-small cell lung cancer using the non-coplanar radiation of Cyberknife and Varian linac. <b>2021</b> , 29, 635-643		
318	Towards a decision support system for radiotherapy business continuity in a pandemic crisis. 1-28		
317	Error detection model developed using a multi-task convolutional neural network in patient-specific quality assurance for volumetric-modulated arc therapy. <i>Medical Physics</i> , <b>2021</b> , 48, 4769-4783	4.4	1
316	Electron FLASH Delivery at Treatment Room Isocenter for Efficient Reversible Conversion of a Clinical LINAC. <b>2021</b> , 110, 872-882		10
315	Correlation between the passing rates of IMRT plans and the volumes of air cavities and bony structures in head and neck cancer. <b>2021</b> , 16, 134		0
314	Virtual Patient-Specific Quality Assurance of IMRT Using UNet++: Classification, Gamma Passing Rates Prediction, and Dose Difference Prediction. <b>2021</b> , 11, 700343		0
313	AAPM MEDICAL PHYSICS PRACTICE GUIDELINE 2.b.: Commissioning and quality assurance of X-ray-based image-guided radiotherapy systems. <b>2021</b> , 22, 73-81		2
312	An adaptive method for recalibrating Gafchromic EBT3 film. <b>2021</b> , 1007, 165435		1
311	Medical Physics Practice Guideline (MPPG) 11.a: Plan and chart review in external beam radiotherapy and brachytherapy. <b>2021</b> , 22, 4-19		3

310	Intrafraction stability using full head mask for brain stereotactic radiotherapy. <b>2021</b> , 22, 360-370		3
309	Credentialing Proton Centers for Clinical Trials.		
308	Technical Note: A simple and fast daily quality assurance solution for modulated scanning proton and carbon ion beams. <i>Medical Physics</i> , <b>2021</b> , 48, 5684-5693	4.4	0
307	Commissioning and clinical implementation of an Autoencoder based Classification-Regression model for VMAT patient-specific QA in a multi-institution scenario. <b>2021</b> , 161, 230-240		3
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