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The management of respiratory motion in radiation oncology report of AAPM Task Group 76

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#	Paper	IF	Citations
1656	Direct aperture deformation: an interfraction image guidance strategy. <i>Medical Physics</i> , <b>2006</b> , 33, 4490-8	4.4	58
1655	Deformable registration for image-guided radiation therapy. <b>2006</b> , 16, 285-97		68
1654	SBRT of lung tumours: Monte Carlo simulation with PENELOPE of dose distributions including respiratory motion and comparison with different treatment planning systems. <b>2007</b> , 52, 4265-81		55
1653	Partial transmission high-speed continuous tracking multi-leaf collimator for 4D adaptive radiation therapy. <b>2007</b> ,		7
1652	Wireless inertial sensor for tumour motion tracking. <b>2007</b> , 76, 012036		6
1651	Adaptive prediction of respiratory motion for motion compensation radiotherapy. <b>2007</b> , 52, 6651-61		69
1650	A deformable lung tumor tracking method in fluoroscopic video using active shape models: a feasibility study. <b>2007</b> , 52, 5277-93		33
1649	Investigation of the reliability, accuracy, and efficiency of gated IMRT delivery with a commercial linear accelerator. <i>Medical Physics</i> , <b>2007</b> , 34, 2928-38	4.4	12
1648	IMAGE-GUIDED MOTION ADAPTATION IN RADIOTHERAPY. <b>2007</b> ,		2
1647	Point/counterpoint. Respiratory gating for radiation therapy is not ready for prime time. <i>Medical Physics</i> , <b>2007</b> , 34, 867-70	4.4	24
1646	Real-time prediction of respiratory motion based on local regression methods. <b>2007</b> , 52, 7137-52		74
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1644	Quantification of accuracy of the automated nonlinear image matching and anatomical labeling (ANIMAL) nonlinear registration algorithm for 4D CT images of lung. <i>Medical Physics</i> , <b>2007</b> , 34, 4409-21	4.4	29
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1641	The management of imaging dose during image-guided radiotherapy: report of the AAPM Task Group 75. <i>Medical Physics</i> , <b>2007</b> , 34, 4041-63	4.4	387
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1639	Four-dimensional multislice helical CT of the lung: qualitative comparison of retrospectively gated and static images in an ex-vivo system. <b>2007</b> , 85, 215-22		17
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1489	Anatomic and pathologic variability during radiotherapy for a hybrid active breath-hold gating technique. <b>2010</b> , 77, 910-7		34
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1474	Targeting accuracy in real-time tumor tracking via external surrogates: a comparative study. <b>2010</b> , 9, 551-62	39
1473	Stereotactic body radiation therapy for lung cancer: achievements and perspectives. <b>2010</b> , 40, 846-54	13
1472	A phantom model demonstration of tomotherapy dose painting delivery, including managed respiratory motion without motion management. <b>2010</b> , 55, 2983-95	15
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1141	Rapid estimation of 4DCT motion-artifact severity based on 1D breathing-surrogate periodicity. <i>Medical Physics</i> , <b>2014</b> , 41, 111717	4.4	17
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1106	Evaluation of dynamic tumour tracking radiotherapy with real-time monitoring for lung tumours using a gimbal mounted linac. <b>2014</b> , 112, 360-4		55
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1086	Computational Model to Simulate the Interplay Effect in dynamic IMRT delivery. <b>2014</b> , 489, 012042	1
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1075	Interfraction positional variation in pancreatic tumors using daily breath-hold cone-beam computed tomography with visual feedback. <b>2015</b> , 16, 5123		10
1074	Novel spirometry based on optical surface imaging. <i>Medical Physics</i> , <b>2015</b> , 42, 1690-7	4.4	13
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506	Positional repeatability and variation in internal and external markers during volumetric-modulated arc therapy under end-exhalation breath-hold conditions for pancreatic cancer patients. <b>2020</b> , 61, 755-765		1

505	RealDRR - Rendering of realistic digitally reconstructed radiographs using locally trained image-to-image translation. <b>2020</b> , 153, 213-219		6
504	Accuracy of real-time respiratory motion tracking and time delay of gating radiotherapy based on optical surface imaging technique. <b>2020</b> , 15, 170		4
503	Investigation of tumor and vessel motion correlation in the liver. <b>2020</b> , 21, 183-190		1
502	Resolution enhancement for lung 4D-CT based on transversal structures by using multiple Gaussian process regression learning. <b>2020</b> , 78, 187-194		2
501	Technical Note: Evaluation of audiovisual biofeedback smartphone application for respiratory monitoring in radiation oncology. <i>Medical Physics</i> , <b>2020</b> , 47, 5496-5504	4-4	
500	Enhanced super-resolution reconstruction of T1w time-resolved 4DMRI in low-contrast tissue using 2-step hybrid deformable image registration. <b>2020</b> , 21, 25-39		2
499	COVID-19 Pandemic Spurs Medical Telerobotic Systems: A Survey of Applications Requiring Physiological Organ Motion Compensation. <b>2020</b> , 7, 594673		3
498	First experimental investigation of simultaneously tracking two independently moving targets on an MRI-linac using real-time MRI and MLC tracking. <i>Medical Physics</i> , <b>2020</b> , 47, 6440-6449	4-4	3
497	Couch and multileaf collimator tracking: A clinical feasibility study for pancreas and liver treatment. <i>Medical Physics</i> , <b>2020</b> , 47, 4743-4757	4-4	1
496	A study of the interplay effect for VMAT SBRT using a four-axes motion phantom. <b>2020</b> , 21, 208-215		3
495	Prediction of excess volume in implementing the ABC system for breath-hold treatment: A preliminary study. <b>2020</b> , 1505, 012007		
494	Commissioning a four-dimensional Computed Tomography Simulator for minimum target size due to motion in the Anterior-Posterior direction: a procedure and treatment planning recommendations. <b>2020</b> , 21, 116-123		0
493	Characterization of robust optimization for VMAT plan for liver cancer. <b>2020</b> , 25, 376-381		1
492	Dosimetric impact of baseline drift in volumetric modulated arc therapy with breath holding. <b>2020</b> , 25, 703-708		0
491	ACR-ASTRO Practice Parameter for the Performance of Stereotactic Body Radiation Therapy. <b>2020</b> , 43, 545-552		7
490	Should ACPSEM develop its own position papers or just adopt those of the AAPM?. <b>2020</b> , 43, 749-753		
489	Investigating the use of virtual 4DCT from 4DMRI in gated carbon ion radiation therapy of abdominal tumors. <b>2020</b> ,		3
488	Impact of lung density on isolated lung tumor dose in VMAT using inline MR-Linac. <b>2020</b> , 80, 65-74		

487	Evaluation of a commercial deformable image registration algorithm for dual-energy CT processing. <b>2020</b> , 21, 227-234		0
486	Self-contained deep learning-based boosting of 4D cone-beam CT reconstruction. <i>Medical Physics</i> , <b>2020</b> , 47, 5619-5631	4-4	4
485	Direct measurement and correction of both megavoltage and kilovoltage scattered x-rays for orthogonal kilovoltage imaging subsystems with dual flat panel detectors. <b>2020</b> , 21, 143-154		2
484	Use of 4-Dimensional Cone Beam Computed Tomography Scan to Estimate the Planning Target Volume Margin in Lung Tumors. <b>2020</b> , 06, 127-133		
483	Technical Note: Patient dose from kilovoltage radiographs during motion-synchronized treatments on Radixact. <i>Medical Physics</i> , <b>2020</b> , 47, 5772-5778	4-4	5
482	Evaluation of radixact motion synchrony for 3D respiratory motion: Modeling accuracy and dosimetric fidelity. <b>2020</b> , 21, 96-106		13
481	Impact of lung tumor motion on dose delivered to organ at risk in lung stereotactic body radiation therapy. <b>2020</b> , 9, 191-198		2
480	An efficient planning technique for low dose whole lung radiation therapy for covid-19 pandemic patients. <b>2020</b> , 16, 85-88		2
479	Respiratory Motion Prediction with Random Vector Functional Link (RVFL) Based Neural Networks. <b>2020</b> , 1626, 012022		
478	Analysis of cardiac motion without respiratory motion for cardiac stereotactic body radiation therapy. <b>2020</b> , 21, 48-55		3
477	Validating the clinical use of Breathe Well, a novel breathe monitoring device. <b>2020</b> , 43, 693-700		0
476	An improved abdominal phantom for intrafraction image guidance validation. <b>2020</b> , 65, 13NT02		2
475	Feasibility of real-time motion tracking using cine MRI during MR-guided radiation therapy for abdominal targets. <i>Medical Physics</i> , <b>2020</b> , 47, 3554-3566	4-4	9
474	Organ motion quantification and margins evaluation in carbon ion therapy of abdominal lesions. <b>2020</b> , 75, 33-39		3
473	Effectiveness of robust optimization in volumetric modulated arc therapy using 6 and 10 MV flattening filter-free beam therapy planning for lung stereotactic body radiation therapy with a breath-hold technique. <b>2020</b> , 61, 575-585		1
472	Scatter imaging during lung stereotactic body radiation therapy characterized with phantom studies. <b>2020</b> , 65, 155013		1
471	Deep learning-based image reconstruction and motion estimation from undersampled radial k-space for real-time MRI-guided radiotherapy. <b>2020</b> , 65, 155015		19
470	Consistent and invertible deformation vector fields for a breathing anthropomorphic phantom: a post-processing framework for the XCAT phantom. <b>2020</b> , 65, 165005		5

469	A motion prediction confidence estimation framework for prediction-based radiotherapy gating. <i>Medical Physics</i> , <b>2020</b> , 47, 3297-3304	4.4	1
468	Quantifying day-to-day variations in 4DCBCT-based PCA motion models. <b>2020</b> , 6, 035020		2
467	Prediction of in-plane organ deformation during free-breathing radiotherapy via discriminative spatial transformer networks. <b>2020</b> , 64, 101754		11
466	Comparison of different methods for lung immobilization in an animal model. <b>2020</b> , 150, 151-158		1
465	Patterns of practice for adaptive and real-time radiation therapy (POP-ART RT) part I: Intra-fraction breathing motion management. <b>2020</b> , 153, 79-87		10
464	Tumor phase recognition using cone-beam computed tomography projections and external surrogate information. <i>Medical Physics</i> , <b>2020</b> , 47, 5077-5089	4.4	0
463	An open-source software for monitoring intrafraction motion during external beam radiation therapy based on superimposition of contours of projected ROIs on cine-MV images. <b>2020</b> , 21, 173-182		0
462	A modern review of the uncertainties in volumetric imaging of respiratory-induced target motion in lung radiotherapy. <i>Medical Physics</i> , <b>2020</b> , 47, e988-e1008	4.4	8
461	Feasibility study for marker-based VMAT plan optimization toward tumor tracking. <b>2020</b> , 21, 84-99		0
460	A super-resolution framework for the reconstruction of T2-weighted (T2w) time-resolved (TR) 4DMRI using T1w TR-4DMRI as the guidance. <i>Medical Physics</i> , <b>2020</b> , 47, 3091-3102	4.4	3
459	Volumetric cine magnetic resonance imaging (VC-MRI) using motion modeling, free-form deformation and multi-slice undersampled 2D cine MRI reconstructed with spatio-temporal low-rank decomposition. <b>2020</b> , 10, 432-450		6
458	Technological quality requirements for stereotactic radiotherapy : Expert review group consensus from the DGMP Working Group for Physics and Technology in Stereotactic Radiotherapy. <b>2020</b> , 196, 421-443		32
457	Intrafractional relationship changes between an external breathing signal and fiducial marker positions in pancreatic cancer patients. <b>2020</b> , 21, 153-161		3
456	Evaluation of interbreath-hold lung tumor position reproducibility with vector volume histogram using the breath-hold technique. <b>2020</b> , 45, 252-255		3
455	Optimizing Coded Aperture Imaging techniques to allow for online tracking of fiducial markers with high-energy scattered radiation from treatment beam. <i>Medical Physics</i> , <b>2020</b> , 47, 4428-4438	4.4	
454	Impact of breath-hold level on positional error aligned by stent/Lipiodol in Hepatobiliary radiotherapy with breath-hold respiratory control. <b>2020</b> , 20, 613		0
453	Feasibility of markerless fluoroscopic real-time tumor detection for adaptive radiotherapy: development and end-to-end testing. <b>2020</b> , 65, 115002		0
452	Dynamic conformal arcs for lung stereotactic body radiation therapy: A comparison with volumetric-modulated arc therapy. <b>2020</b> , 21, 103-109		2

451	Investigation of 4D dose in volumetric modulated arc therapy-based stereotactic body radiation therapy: does fractional dose or number of arcs matter?. <b>2020</b> , 61, 325-334		2
450	Reducing 4D CT imaging artifacts at the source: first experimental results from the respiratory adaptive computed tomography (REACT) system. <b>2020</b> , 65, 075012		1
449	Patient Radiation Exposure: Imaging During Radiation Oncology Procedures: Executive Summary of NCRP Report No. 184. <b>2020</b> , 17, 1176-1182		2
448	Additive manufacturing in radiation oncology: a review of clinical practice, emerging trends and research opportunities. <b>2020</b> , 2, 012003		17
447	MRSIGMA: Magnetic Resonance SIGnature MAtching for real-time volumetric imaging. <b>2020</b> , 84, 1280-1292		8
446	Tolerability and safety of EUS-injected adenovirus-mediated double-suicide gene therapy with chemotherapy in locally advanced pancreatic cancer: a phase 1 trial. <b>2020</b> , 92, 1044-1052.e1		19
445	Evaluation of the target dose coverage of stereotactic body radiotherapy for lung cancer using helical tomotherapy: A dynamic phantom study. <b>2020</b> , 25, 200-205		3
444	Locally Adaptive Total p-Variation Regularization for Non-Rigid Image Registration With Sliding Motion. <b>2020</b> , 67, 2560-2571		1
443	Simulating the approximate irregular field dose distribution in radiotherapy using an ultrasound tracking technique. <b>2020</b> , 70, 19-27		2
442	Real-time 4DMRI-based internal target volume definition for moving lung tumors. <i>Medical Physics</i> , <b>2020</b> , 47, 1431-1442	4.4	6
441	4D CT image artifacts affect local control in SBRT of lung and liver metastases. <b>2020</b> , 148, 229-234		8
440	Technical Note: Comprehensive performance tests of the first clinical real-time motion tracking and compensation system using MLC and jaws. <i>Medical Physics</i> , <b>2020</b> , 47, 2814-2825	4.4	13
439	Current radiotherapy techniques in NSCLC: challenges and potential solutions. <b>2020</b> , 20, 387-402		9
438	Automated MV markerless tumor tracking for VMAT. <b>2020</b> , 65, 125011		2
437	A novel dynamic robotic moving phantom system for patient-specific quality assurance in real-time tumor-tracking radiotherapy. <b>2020</b> , 21, 16-28		2
436	Radiosurgery for ventricular tachycardia: preclinical and clinical evidence and study design for a German multi-center multi-platform feasibility trial (RAVENTA). <b>2020</b> , 109, 1319-1332		16
435	Mid-position treatment strategy for locally advanced lung cancer: a dosimetric study. <b>2020</b> , 93, 20190692		2
434	Correlating lung tumour location and motion with respiration using 4D CT scans. <b>2021</b> , 20, 17-21		2

433	Divergence-Free Fitting-Based Incompressible Deformation Quantification of Liver. <b>2021</b> , 25, 720-736		
432	4D in vivo dose verification for real-time tumor tracking treatments using EPID dosimetry. <b>2021</b> , 46, 29-38		
431	New method for measurement of chest surface motion in lung cancer patients: Quantification using a technique of deformable image registration. <b>2021</b> , 46, 111-116		0
430	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
429	Nonrigid 3D motion estimation at high temporal resolution from prospectively undersampled k-space data using low-rank MR-MOTUS. <b>2021</b> , 85, 2309-2326		5
428	Evaluation of thoracic surface motion during the free breathing and deep inspiration breath hold methods. <b>2021</b> , 46, 274-278		
427	Benefits of Radiotherapy with Indigenous Tools Aiding Deep Inspiration Breath Holding Technique Compared to Free Breathing Technique among Breast Cancer Patients in Bangladesh. <b>2021</b> , 10, 75-86		
426	Toward real-time verification for MLC tracking treatments using time-resolved EPID imaging. <i>Medical Physics</i> , <b>2021</b> , 48, 953-964	4.4	0
425	Radiation dosimetric influence by different target volume definition in Cyberknife lung cancer and abdomen stereotactic body radiotherapy. <b>2021</b> , 14, 336-343		
424	Technological Advances in Radiotherapy. <b>2021</b> , 73-91		
423	A method using 4D dose accumulation to quantify the interplay effect in lung stereotactic body radiation therapy. <b>2021</b> , 66, 035025		0
422	Real-time non-rigid 3D respiratory motion estimation for MR-guided radiotherapy using MR-MOTUS. <b>2021</b> , PP,		1
421	Feasibility of MR-guided radiotherapy using beam-eye-view 2D-cine with tumor-volume projection. <b>2021</b> , 66, 045020		0
420	Quality assurance for dynamic tumor tracking. <b>2021</b> ,		0
419	Advanced Technologies for Applied Particle Accelerators and Examples of Their Use (Review). <b>2021</b> , 66, 161-195		17
418	Analysis of target doses on various tissues in treatment of lung cancer: a simulation study. <b>2021</b> , 1825, 012091		
417	Recommended procedures and responsibilities for radiosurgery (SRS) and extracranial stereotactic body radiotherapy (SBRT): report of the SEOR in collaboration with the SEFM. <b>2021</b> , 23, 1281-1291		3
416	A hierarchical model of abdominal configuration changes extracted from golden angle radial magnetic resonance imaging. <b>2021</b> , 66, 045018		1

415	Experimental and numerical studies on kV scattered x-ray imaging for real-time image guidance in radiation therapy. <b>2021</b> , 66, 045022		0
414	Sarcoma of the Heart Treated with Stereotactic MR-Guided Online Adaptive Radiation Therapy. <b>2021</b> , 14, 453-458		2
413	Development of a 3D Printed Motion Mechanism for a 4D Respiratory Motion Phantom. <b>2021</b> ,		0
412	In-vivo lung biomechanical modeling for effective tumor motion tracking in external beam radiation therapy. <b>2021</b> , 130, 104231		2
411	An unsupervised 2D-3D deformable registration network (2D3D-RegNet) for cone-beam CT estimation. <b>2021</b> , 66,		5
410	Effects of variable-width jaw motion on beam characteristics for Radixact Synchrony <sup>®</sup> . <b>2021</b> , 22, 175-181		2
409	An MRI framework for respiratory motion modelling validation. <b>2021</b> , 65, 337-344		2
408	Technical Note: Investigating internal-external motion correlation using fast helical CT. <i>Medical Physics</i> , <b>2021</b> , 48, 1823-1831	4.4	1
407	Geometric Reproducibility of Fiducial Markers and Efficacy of a Patient-Specific Margin Design Using Deep Inspiration Breath Hold for Stereotactic Body Radiation Therapy for Pancreatic Cancer. <b>2021</b> , 6, 100655		3
406	Dosimetric evaluation of MRI-guided multi-leaf collimator tracking and trailing for lung stereotactic body radiation therapy. <i>Medical Physics</i> , <b>2021</b> , 48, 1520-1532	4.4	3
405	Feasibility and safety of whole lung irradiation in the treatment of canine appendicular osteosarcoma. <b>2021</b> ,		
404	Application of discrete cosine transform to assess the effect of tumor motion variations on the definition of ITV in lung and liver SBRT. <b>2021</b> , 84, 132-140		1
403	3D dosimetric validation of ultrasound-guided radiotherapy with a dynamically deformable abdominal phantom. <b>2021</b> , 84, 159-167		2
402	A robotically assisted 3D printed quality assurance lung phantom for Calypso. <b>2021</b> , 66,		0
401	Stereotactic radiotherapy for early stage non-small cell lung cancer: current standards and ongoing research. <b>2021</b> , 10, 1930-1949		2
400	Enhanced Deep-Inspiration Breath Hold Superior to High-Frequency Percussive Ventilation for Respiratory Motion Mitigation: A Physiology-Driven, MRI-Guided Assessment Toward Optimized Lung Cancer Treatment With Proton Therapy. <b>2021</b> , 11, 621350		2
399	Design of a motion simulation system to assist respiratory gating for radiation therapy. <b>2021</b> , 46, 360-363		
398	Simultaneous multi-slice accelerated 4D-MRI for radiotherapy guidance. <b>2021</b> , 66,		3

397	Tumour motion management in lung cancer: a narrative review. <b>2021</b> , 10, 2011-2017		2
396	Investigation of interfractional variation in lung tumor position under expiratory-phase breath hold using cone-beam computed tomography in stereotactic body radiation therapy. <b>2021</b> , 46, 370-373		0
395	Failure Modes in IROC Photon Liver Phantom Irradiations. <b>2021</b> , 11, e322-e328		0
394	Four-dimensional dose calculations for dynamic tumour tracking with a gimbal-mounted linear accelerator. <b>2021</b> , 22, 16-25		0
393	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
392	5-year results of accelerated partial breast irradiation (APBI) with SBRT (stereotactic body radiation therapy) and exactrac adaptive gating (Novalis) for very early breast cancer patients: was it all worth it?. <b>2021</b> , 23, 2358-2367		0
391	Respiratory gating in patients with lung carcinoma undergoing radiotherapy. 1-10		
390	Potential of a probabilistic framework for target prediction from surrogate respiratory motion during lung radiotherapy. <b>2021</b> , 66,		2
389	Maximizing Tumor Control and Limiting Complications With Stereotactic Body Radiation Therapy for Pancreatic Cancer. <b>2021</b> , 110, 206-216		7
388	Implementation of free breathing respiratory amplitude-gated treatments. <b>2021</b> , 22, 119-129		0
387	Noise-robust breathing-phase estimation on marker-free, ultra low dose X-ray projections for real-time tumor localization via surrogate structures. <b>2021</b> ,		
386	Image Registration of F-FDG PET/CT Using the MotionFree Algorithm and CT Protocols through Phantom Study and Clinical Evaluation. <b>2021</b> , 9,		0
385	Assessment of IGRT variability for lung SBRT. <b>2021</b> , 52, 191-197		1
384	Ultrasound-based sensors to monitor physiological motion. <i>Medical Physics</i> , <b>2021</b> , 48, 3614-3622	4.4	1
383	Machine learning applications in radiation oncology. <b>2021</b> , 19, 13-24		7
382	Combining rescanning and gating for a time-efficient treatment of mobile tumors using pencil beam scanning proton therapy. <b>2021</b> , 160, 82-89		1
381	A study of the interplay effect in radiation therapy using a Monte-Carlo model. <b>2021</b> , 87, 73-82		0
380	Treatment planning and 4D robust evaluation strategy for proton therapy of lung tumors with large motion amplitude. <i>Medical Physics</i> , <b>2021</b> , 48, 4425-4437	4.4	2



379	Task group 284 report: magnetic resonance imaging simulation in radiotherapy: considerations for clinical implementation, optimization, and quality assurance. <i>Medical Physics</i> , <b>2021</b> , 48, e636-e670	4-4	14
378	Recommendations on the practice of calibration, dosimetry, and quality assurance for gamma stereotactic radiosurgery: Report of AAPM Task Group 178. <i>Medical Physics</i> , <b>2021</b> , 48, e733-e770	4-4	6
377	Geometric and dosimetric accuracy of deformable image registration between average-intensity images for 4DCT-based adaptive radiotherapy for non-small cell lung cancer. <b>2021</b> , 22, 156-167		1
376	Tumour motion analysis from planning to end of treatment course for a large cohort of peripheral lung SBRT targets. <b>2021</b> , 60, 1407-1412		0
375	A 'proof of concept' treatment planning study of gated proton radiotherapy for cardiac soft tissue sarcoma. <b>2021</b> , 19, 78-84		1
374	Technical Note: End-to-end verification of an MR-Linac using a dynamic motion phantom. <i>Medical Physics</i> , <b>2021</b> , 48, 5479-5489	4-4	0
373	Technical Note: A 3D-printed phantom for radiochromic film evaluation of moving lung tumor SBRT without dose convolution. <i>Medical Physics</i> , <b>2021</b> , 48, 3453-3458	4-4	1
372	Improvements in beam's eye view fiducial tracking using a novel multilayer imager. <b>2021</b> , 66,		
371	MVCT versus kV-CBCT for targets subject to respiratory motion: A phantom study. <b>2021</b> , 22, 143-152		1
370	Evaluation of super-resolution on 50 pancreatic cancer patients with real-time cine MRI from 0.35T MRgRT. <b>2021</b> , 7,		0
369	Dosimetric Uncertainties Resulting From Interfractional Anatomic Variations for Patients Receiving Pancreas Stereotactic Body Radiation Therapy and Cone Beam Computed Tomography Image Guidance. <b>2021</b> , 111, 1298-1309		1
368	Benefits of Continuous Positive Airway Pressure (CPAP) During Radiation Therapy: A Prospective Trial. <b>2021</b> , 110, 1466-1472		2
367	Validation of proton dose calculation on scatter corrected 4D cone beam computed tomography using a porcine lung phantom. <b>2021</b> , 66,		0
366	Transmission study of the Abdominal Compression plate (BodyFIX Diaphragm Control) for abdominal and stereotactic body radiotherapy. <b>2021</b> , 22, 232-241		2
365	First-in-human imaging using a MR-compatible e4D ultrasound probe for motion management of radiotherapy. <b>2021</b> , 88, 104-110		1
364	Surface guided frameless positioning for lung stereotactic body radiation therapy. <b>2021</b> , 22, 215-226		3
363	The feasibility of an approximate irregular field dose distribution simulation program applied to a respiratory motion compensation system. <b>2021</b> , 88, 117-126		
362	Development and Performance Evaluation of Wearable Respiratory Self-Training System Using Patch Type Magnetic Sensor. <b>2021</b> , 11, 680147		

361	Evaluation of lung tumor motion in a large sample: Target-related and clinical factors influencing tumor motion based on four-dimensional CT. <b>2021</b> , 10, 7126-7135		1
360	Evaluating differences in respiratory motion estimates during radiotherapy: a single planning 4DMRI versus daily 4DMRI. <b>2021</b> , 16, 188		0
359	Real-time 3D motion estimation from undersampled MRI using multi-resolution neural networks. <i>Medical Physics</i> , <b>2021</b> , 48, 6597-6613	4-4	1
358	Risks and Benefits of Fiducial Marker Placement in Tumor Lesions for Robotic Radiosurgery: Technical Outcomes of 357 Implantations. <b>2021</b> , 13,		0
357	Dosimetric benefits of dynamic conformal arc therapy-combined with active breath-hold in lung stereotactic body radiotherapy. <b>2021</b> ,		
356	Clinical Implementation and Initial Experience of Real-Time Motion Tracking With Jaws and Multileaf Collimator During Helical Tomotherapy Delivery. <b>2021</b> , 11, e486-e495		6
355	Boosting the Abscopal Effect Using Immunogenic Biomaterials With Varying Radiation Therapy Field Sizes. <b>2021</b> ,		0
354	Bilevel Positive Airway Pressure Ventilation for Improving Respiratory Reproducibility in Radiation Oncology: A Pilot Study. <b>2022</b> , 7, 100780		
353	Diaphragm-Based Position Verification to Improve Daily Target Dose Coverage in Proton and Photon Radiation Therapy Treatment of Distal Esophageal Cancer. <b>2021</b> ,		0
352	Effect of abdominal compression on target movement and extension of the external boundary of peripheral lung tumours treated with stereotactic radiotherapy based on four-dimensional computed tomography. <b>2021</b> , 16, 173		0
351	An international survey of imaging practices in radiotherapy. <b>2021</b> , 90, 53-65		3
350	Probabilistic 4D predictive model from in-room surrogates using conditional generative networks for image-guided radiotherapy. <b>2021</b> , 74, 102250		1
349	Absolute dose measurements for lung gated delivery stereotactic body radiation therapy. <b>2021</b> , 189, 109739		0
348	Tridimensional dose evaluation of the respiratory motion influence on breast radiotherapy treatments using conformal radiotherapy, forward IMRT, and inverse IMRT planning techniques. <b>2021</b> , 81, 60-68		1
347	Is upright radiotherapy medically and financially better?. <b>2021</b> ,		0
346	Slice-stacking T2-weighted MRI for fast determination of internal target volume for liver tumor. <b>2021</b> , 11, 32-42		1
345	CT in Hybrid SPECT/CT and PET/CT. <b>2021</b> , 343-357		
344	The impact of data-driven respiratory gating in clinical F-18 FDG PET/CT: comparison of free breathing and deep-expiration breath-hold CT protocol. <b>2021</b> , 35, 328-337		4

343	Effectiveness of individual audio-visual coaching, respiratory modulated stereotactic body radiotherapy for localized hepatocellular carcinoma: Analysis of 29 cases from a single academic radiotherapy center. <b>2021</b> , 33, 380-387	
342	Image-Guided Radiation Therapy. <b>2017</b> , 131-173	1
341	Slipping objects in image registration: improved motion field estimation with direction-dependent regularization. <b>2009</b> , 12, 755-62	13
340	Respiratory motion estimation from cone-beam projections using a prior model. <b>2009</b> , 12, 365-72	7
339	Prediction framework for statistical respiratory motion modeling. <b>2010</b> , 13, 327-34	13
338	Single-projection based volumetric image reconstruction and 3D tumor localization in real time for lung cancer radiotherapy. <b>2010</b> , 13, 449-56	9
337	Estimating the 4D respiratory lung motion by spatiotemporal registration and building super-resolution image. <b>2011</b> , 14, 532-9	8
336	Keep breathing! Common motion helps multi-modal mapping. <b>2011</b> , 14, 597-604	1
335	3D organ motion prediction for MR-guided high intensity focused ultrasound. <b>2011</b> , 14, 623-30	23
334	Joint ToF Image Denoising and Registration with a CT Surface in Radiation Therapy. <b>2012</b> , 98-109	10
333	A 4D statistical shape model for automated segmentation of lungs with large tumors. <b>2012</b> , 15, 347-54	9
332	Introduction to 4D Motion Modeling and 4D Radiotherapy. <b>2013</b> , 1-21	2
331	Computational Motion Phantoms and Statistical Models of Respiratory Motion. <b>2013</b> , 215-247	2
330	A learning-based approach for fast and robust vessel tracking in long ultrasound sequences. <b>2013</b> , 16, 518-25	18
329	Review: Prediction of Respiratory Motion. <b>2014</b> , 7-37	2
328	Real-Time Range Imaging in Health Care: A Survey. <b>2013</b> , 228-254	26
327	Planning benchmark study for SBRT of early stage NSCLC : Results of the DEGRO Working Group Stereotactic Radiotherapy. <b>2017</b> , 193, 780-790	36
326	Geometric and dosimetric verification of a recurrent neural network algorithm to compensate for respiratory motion using an articulated robotic couch. <b>2021</b> , 78, 64-72	2

325	Radiation Oncology Physics. <b>2012</b> , 95-152	3
324	Accounting for, Mitigating, and Choice of Margins for Moving Tumors. <b>2018</b> , 28, 194-200	3
323	Stereotactic Ablative Radiotherapy Uncertainties: Delineation, Setup and Motion. <b>2018</b> , 28, 207-217	24
322	Deep learning-based real-time volumetric imaging for lung stereotactic body radiation therapy: a proof of concept study. <b>2020</b> , 65, 235003	5
321	Evaluation of an x-ray CT polymer gel dosimetry system in the measurement of deformed dose. <b>2020</b> , 6, 035031	3
320	Evaluation of MRI-derived surrogate signals to model respiratory motion. <b>2020</b> , 6, 045015	6
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