

BIBLIOGRAPHY

2021

A Generative Adversarial Network (GAN) Based Monte Carlo Model for a Biology-Guided Radiation Therapy Machine

M. Shi, S. Cui, D. Zaks, B. Han

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

A Motion Phantom Study on Reflexion X1: The Dosimetric Impacts of Stereotactic Radiation Therapy Delivery Technique and Motion

D.P.I. Capaldi, E.A. Simiele, M.K. Owens, B.Han, M. Surucu, L. Xing, L. Vitzthum, D. Chang, N. Kovalchuk

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Characterization of Single-Dose Radiotherapy (SDRT) Performance in a New High-Speed Ring Gantry-Based LINAC System

O. Oderinde, S. Khan, A. Da Silva, S. Tian, X. Yang, K. Higgins, S. Shirvani, G. Kuduvalli

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Estimating the Total US Incidence of Advanced/Metastatic Non-Small Cell Lung (NSCLC) Including Recurrent Disease

C. Huntzinger, H. Leach, Y. Fu, A. Amini, D. Peng, S.M. Shirvani

J THORACIC ONCOL. 2021;16(3)317-18

DOI: <https://doi.org/10.1016/j.jtho.2021.01.485>

Evaluating Backscattered Radiation into the Dose Monitor Chamber in the Reflexion X1 Using Monte Carlo Simulation

O. Oderinde, D. Zaks, C. Huntzinger, S. Shirvani, A. Maniyedath, T. Laurence, M. Lu

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

First Beam QA and Commissioning Report of a Novel Biology-Guided Radiotherapy System

B. Han, N. Kovalchuk, D. Capaldi, E. Simiele, A. Purwar, J. White, D. Zaks, L. Vitzthum, D. Chang, L. Xing, M. Surucu

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Focal Spot Size Effect of the Reflexion X1 Radiotherapy Machine: A Monte Carlo Simulation Study

O. Oderinde, D. Zaks, C. Huntzinger, S. Shirvani, T. Laurence, M. Lu

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Improving Workflow Efficiency and Safety for Reflexion X1 Treatment Planning Process Via Eclipse API Scripting

E. Simiele, N. Kovalchuk

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

IMRT Treatment Planning Study for the First Clinical Biology-Guided Radiotherapy System

D. Pham, D. Breitzkreutz, E. Simiele, D. Capaldi, L. Vitzthum, M. Gensheimer, H. Bagshaw, B. Han, M. Surucu, L. Xing, D. Chang, N. Kovalchuk

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

New Dosimetric Standard for Radiotherapy: Bounded Dose Volumetric Histogram Derived From Gamma Criteria

P. Olcott, Y. Voronenko, A. Da Silva, O.M. Oderinde

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Positron Emission Tomography (PET) Characterization for Biology-Guided Radiotherapy (BgRT)

Z. Hu, M. Narayanan, V. Ferri, A. Iagaru, N. Kovalchuk, B. Han, L. Xing, S. Shirvani, D. Chang, M. Surucu

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Preliminary Treatment Planning System Commissioning Results for the First Clinical Biology-Guided Radiotherapy Machine

N. Kovalchuk, B. Han, E. Simiele, D. Capaldi, D. Breitzkreutz, T.P.C. Yeung, J. White, D. Zaks, M. Owens, A. Purwar, L. Vitzthum, D. Chang, L. Xing, M. Surucu

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Quantification of Peripheral Dose in the New Ring-gantry RefleXion X1 Radiotherapy Machine

O. Oderinde, S. Khan, M Narayanan, A. Maniyedath, S. Shirvani, G. Kuduvalli

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Small Field Dosimetry of a Novel Biology-Guided Radiotherapy System

B. Han, N. Kovalchuk, M. Shi, K. Bush, D. Capaldi, D. Breitzkreutz, E. Simiele, L. Xing, M. Surucu, C. Chuang

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2021](#)

Benchmark Performance Measurements of a Prototype Biology-Guided Radiotherapy (BgRT) System Using TG-148 and TG-142

D. Zaks, R. Bassalow, O. Volotskova, M. Narayanan, C. Huntzinger, S.M. Shirvani, S. Mazin, G. Kuduvalli

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2020](#)

Biology-guided Radiotherapy: Redefining the Role of Radiotherapy in Metastatic Cancer

S.M. Shirvani, C. Huntzinger, T. Melcher, P. Olcott, Y. Voronenko, J. Bartlett-Roberto, S. Mazin

BR J RADIOL 2020;93:20200873

DOI: <https://doi.org/10.1259/bjr.20200873>

Characterization of IMRT, SBRT and SRS Patient Plan Quality Assurance of a Novel Biology-Guided Radiotherapy (BgRT) Machine

D. Zaks, A. Purwar, M. Narayanan, S. Khan, J. White, A. Da Silva, C. Han, J. Liang, D. Du, A. Liu, Y. Voronenko, D. Pal, D. Rigie, J. Burns, G. Kuduvalli

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2020](#)

Characterization of the IMRT and SBRT Performance of a Novel Biology-Guided Radiotherapy (BgRT) Machine Using ArcCHECK

D. Zaks, M. Narayanan, R. Bassalow, O. Volotskova, Y. Voronenko, D. Pal, D. Rigie, Jon Burns, A. Purwar, P. Olcott, G. Kuduvalli

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2020](#)

Characterization of the IMRT Performance of a Novel Biology-Guided Radiotherapy (BgRT) Machine Using the TG-119 Methodology

A. Purwar, M. Narayanan, S. Khan, D. Zaks, J. White, C. Huntzinger, S.M. Shirvani, S. Mazin, G. Kuduvalli

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2020](#)

Comprehensive Dosimetric Evaluation of a Biology-Guided Radiotherapy Machine in Treatment Plans for Brain, Lung, Head and Neck, Esophagus, and Prostate Malignancies

C. Han, J. Liang, A. Da Silva, J.P. Neylon, D. Du, A. Liu

INT J RADIATION ONCOL BIOL PHYS. 2020;108(2):61

DOI: <https://doi.org/10.1016/j.ijrobp.2020.02.615>

Comparative Evaluation of Treatment Plan Quality for a Prototype Biology-Guided Radiotherapy System in the Treatment of Nasopharyngeal Carcinoma

C. Han, A. Da Silva, PhD, J. Liang, C. Wohlers, C. Huntzinger, J.P. Neylon, D. Du, J.Y.C. Wong, A. Liu

MOEDDOS 2020;46(2):171-78

DOI: <https://doi.org/10.1016/j.meddos.2020.11.002>

Expanding the Definition of Oligometastatic in Lung Adenocarcinoma

A. Amini, B. Chau, I. Mambetsariev, C. Huntzinger, S.M. Shirvani, K. Reckamp, E. Massarelli, J.Y.C. Wong, R. Salgia

INT J RADIATION ONCOL BIOL PHYS. 2020;108(2):50-1

DOI: <https://doi.org/10.1016/j.ijrobp.2020.02.588>

Extending the IAEA-AAPM TRS-483 Methodology for Radiation Therapy Machines with Field Sizes Down to 10 × 2 Cm²

L. Mirzakhani, R. Bassalow, C. Hutzinger, J. Seuntjens

MED PHYS. 2020;47(10):5209-221

DOI: <https://doi.org/10.1002/mp.14325>

Evaluation of Treatment Planning Performance of a New BgRT Platform for SBRT of Multiple Metastases

A. Bulent, S. Chumra, J. George, J. Partouche

EUROPEAN SOCIETY FOR THERAPEUTIC RADIOLOGY AND ONCOLOGY - [ESTRO ANNUAL MEETING, NOVEMBER 2020](#)

Evaluation of Plan Quality of a New BgRT Delivery Platform for Spine SBRT

A. DaSilva, A. Bulent, S. Balyimez, C. Hutzinger, J. George, J. Partouche, S. Pitroda

EUROPEAN SOCIETY FOR THERAPEUTIC RADIOLOGY AND ONCOLOGY - [ESTRO ANNUAL MEETING, NOVEMBER 2020](#)

FDG-PET Metrics in Advanced Non-Small Cell Lung Cancer (NSCLC): A Modern Review and Meta-Analysis

A.C. Berkowitz, B. Halmos, H. Cheng, C. Hutzinger, N. Ohri

INT J RADIATION ONCOL BIOL PHYS. 2020;108;121

DOI: <https://doi.org/10.1016/J.IJROBP.2020.07.1256>

Feasibility of Biology-Guided Radiotherapy for Pancreatic Tumors: An Assessment of Normalized Target SUV

R.R. Patel, T. Pan, S.M. Shirvani, C. Hutzinger, A. Da Silva, V. Verma, A. Koong, E. Koay, J.W. Welsh

INT J RADIATION ONCOL BIOL PHYS. 2020;108(3);340-341

DOI: <https://doi.org/10.1016/J.IJROBP.2020.07.813>

Feasibility of Biology-guided Radiotherapy (BgRT) Targeting Fluorodeoxyglucose (FDG) Avid Liver Metastases

A. Amini, D. Du, T. Abuali, J. Neylon, D. Zuro, S.M. Shirvani, C. Hutzinger, A. Da Silva, S.K. Hui, J.Y.C. Wong, A. Liu

INT J RADIATION ONCOL BIOL PHYS. 2020;108;168-169

DOI: <https://doi.org/10.1016/J.IJROBP.2020.07.940>

AEA-AAPM TRS-483-Based Reference Dosimetry of the New Reflexion Biology-guided Radiotherapy (BgRT) Machine

L. Mirzakhaniyan, R. Bassalow, D. Zaks, C. Hutzinger, J. Seuntjens

MED PHYS. 2020;47(10):1884-92

DOI: <https://doi.org/10.1002/MP.14631>

Increased 18-FDG Metabolic Activity During Lung SBRT Predicts Risk of Disease Progression: Results from a Prospective Study of Serial Inter-Fraction PET/CTs

S. Tian, J. Switchenko, X. Yang, I. Sethi, A. Da Silva, T.K. Owonikoko, D.M. Schuster, W.J. Curran Jr., K.A. Higgins
INT J RADIATION ONCOL BIOL PHYS. 2020;108;59-60
[DOI: https://doi.org/10.1016/j.ijrobp.2020.07.2188](https://doi.org/10.1016/j.ijrobp.2020.07.2188)

KV-Energy Fan-Beam CT Imaging Performance of a Novel Biology-Guided Radiotherapy (BgRT) Machine

Z. Sun, H. Gao, S. Xu, J. Ye, C. Huntzinger, S.M. Shirvani, S. Mazin, T. Laurence
AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2020](#)

Performance Validation of a Novel Biology-Guided Radiotherapy (BgRT) TPS Following the IAEA-TECDOC-1540 Methodology

D. Zaks, R. Bassalow, O. Volotskova, M. Narayanan, C. Huntzinger, S.M. Shirvani, S. Mazin, G. Kuduvali
AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -
[ANNUAL MEETING, JULY 2020](#)

Prognostic Impact of Malignant Pleural Effusion in Patients with Oligometastatic Non-Small-Cell Lung Cancer

A. Amini, B. Chau, I. Mambetsariev, C. Huntzinger, S.M. Shirvani, K. Reckamp, E. Massarelli, J. Wong, R. Salgia
INT J RADIATION ONCOL BIOL PHYS. 2020;108(2):50
[DOI: https://doi.org/10.1016/j.ijrobp.2020.02.586](https://doi.org/10.1016/j.ijrobp.2020.02.586)

Prognostic Value of FDG-PET Metrics for Advanced NSCLC Patients Treated with First-line Immunotherapy

T.Y. Andraos, B. Halmos, H. Cheng, C. Huntzinger, N. Ohri
INT J RADIATION ONCOL BIOL PHYS. 2020;108;116-117
[DOI: https://doi.org/10.1016/j.ijrobp.2020.07.1246](https://doi.org/10.1016/j.ijrobp.2020.07.1246)

Simultaneous Integrated Boost of Lung Tumors in the Stereotactic Ablative Setting using BgRT Tracked Delivery

P. Olcott, S.M. Shirvani, S. Tian, I. Sethi, X. Yang, A. Da Silva, C. Huntzinger, S. Mazin, T.K. Owonikoko, D.M. Schuster, W.J. Curran, K.A. Higgins

INT J RADIATION ONCOL BIOL PHYS. 2020;108;306

[DOI: https://doi.org/10.1016/j.ijrobp.2020.07.731](https://doi.org/10.1016/j.ijrobp.2020.07.731)

Suitability of PSMA-PET Biology-guided Radiotherapy for Low Volume Metastases in Newly Diagnosed Prostate Cancer

M. Gaudreault, N. Hardcastle, P. Jackson, J. Callahan, T. Kron, C. Huntzinger, S.M. Shirvani, A. Da Silva, M.S. Hofman, G.G. Hanna, S. Siva

INT J RADIATION ONCOL BIOL PHYS. 2020;108;188

[DOI: https://doi.org/10.1016/j.ijrobp.2020.07.983](https://doi.org/10.1016/j.ijrobp.2020.07.983)

Use of a Detailed Process Map for Clinical Workflow of a New Biology-guided Radiation Therapy Machine

M.S. Hwang, R.J. Lalonde, S. Huq

INT J RADIATION ONCOL BIOL PHYS. 2020;108;367-368

[DOI: https://doi.org/10.1016/j.ijrobp.2020.07.2373](https://doi.org/10.1016/j.ijrobp.2020.07.2373)

Validation of ArcCHECK for Use with a Novel Ring Gantry-Based Biology-Guided Radiotherapy (BgRT) Machine

D. Zaks, M. Narayanan, R. Bassalow, O. Volotskova, C. Huntzinger, S.M. Shirvani, S. Mazin, G. Kuduvalli

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -

[ANNUAL MEETING, JULY 2020](#)

2019

A Clinical Workflow for a Prototype Biology-guided Radiation Therapy (BgRT) Machine

M. Hwang, R. Lalonde, D. Heron, M. Huq

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -

[ANNUAL MEETING, JULY 2019](#)

Biology-guided Radiotherapy for Lung SBRT Reduces Planning Target Volumes and Organs at Risk Doses

J. Liang, A. Da Silva, C Han, J. Neylon, A. Amini, S. Sampath, A. Liu, J. Wong

INT J RADIATION ONCOL BIOL PHYS. 2019;105:254

DOI: <https://doi.org/10.1016/J.IJROBP.2019.06.2468>

Calibration of the New RefleXion Biology-guided Radiotherapy Unit in the Context of the TRS-483 CoP

L. Mirzakhani, D. Zaks, R. Bassalow, C. Huntzinger, J. Seuntjens

RADIATION & ONCOLOGY 2019;133:973-4

DOI: [https://doi.org/10.1016/S0167-8140\(19\)32218-2](https://doi.org/10.1016/S0167-8140(19)32218-2)

Characterization of Inter-Fraction 18-FDG PET Variability During Lung SBRT: Results of a Prospective Pilot Study

S. Tian, I. Sethi, X. Yang, A. Da Silva, J. Switchenko, T. Owonikoko, D. Schuster, W. Curran, K. Higgins

INT J RADIATION ONCOL BIOL PHYS. 2019;105:536

DOI: <https://doi.org/10.1016/J.IJROBP.2019.06.2449>

Characterization of Inter-Fraction 18-FDG PET Variability During Lung SBRT: Results of a Prospective Pilot Study

S. Tian, I Sethi, X. Yang, A. Da Silva, J. Switchenko, T. Owonikoko, D. Schuster, W. Curran, K. Higgins

INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER -

[WORLD CONFERENCE, SEPTEMBER 2019](#)

Dosimetric and Geometric Accuracy of the Collapsed Cone Convolution Superposition (CCCS) Algorithm

C. Han, J. Liang, J. Neylon, A. Liu, A. Da Silva, S. Dandapani, J. Wong

INT J RADIATION ONCOL BIOL PHYS. 2019;105:763-64

DOI: <https://doi.org/10.1016/J.IJROBP.2019.06.799>

Dosimetric Comparison of Biologically-Guided Radiotherapy and X-Ray-Guided Stereotactic Ablative Radiotherapy for Oligometastatic Prostate Cancer

W. Hrinivich, R. Phillips, A. Da Silva, N. Radwan, M. Gorin, S. Rowe, K. Pienta, M. Pomper, J. Wong, K. Wang, P. Tran

INT J RADIATION ONCOL BIOL PHYS. 2019;104:1190

DOI: <https://doi.org/10.1016/J.IJROBP.2019.05.045>

Dosimetric Evaluation of Intracranial Stereotactic Radiosurgery Treatment Plans for a Prototype Biology-guided Radiotherapy System

C. Han, J. Liang, J. Neylon, A. Liu, A. Da Silva, S. Dandapani, J. Wong

INT J RADIATION ONCOL BIOL PHYS. 2019;105:763-64

DOI: <https://doi.org/10.1016/J.IJROBP.2019.06.799>

IAEA-AAPM TRS483 Based Reference Dosimetry for the New Biology-guided Radiotherapy (BgRT) System

L. Mirzakhani, D. Zaks, R. Bassalow, C. Huntzinger, J. Seuntjens

INTERNATIONAL CONFERENCE ON MONTE CARLO TECHNIQUES FOR MEDICAL APPLICATIONS -

[ANNUAL MEETING, JUNE 2019](#)

Measurements of Leakage Radiation and Barrier Shielding Calculations for a Biology-guided Radiotherapy (BgRT) System

A. Purwar, J. Rogers, R. Bassalow, D. Zaks, D. Nett, P. Lilagan

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE -

[ANNUAL MEETING, JUNE 2019](#)

Reference Dosimetry of a New Biology-guided Radiotherapy (BgRT) System Following the IAEA TRS-483 CoP

L. Mirzakhani, D. Zaks, R. Bassalow, C. Huntzinger, J. Seuntjens

INTERNATIONAL ORGANIZATION OF MEDICAL PHYSICS -

[ANNUAL MEETING, JUNE 2019](#)

A Dosimetric Study to Assess the Feasibility of Prototype Treatment Planning Software for a New Biology-guided Radiotherapy System

J. Liang, A. Liu, C. Han, A. Da Silva, S. Zhang, J.Y.C. Wong
INT J RADIATION ONCOL BIOL PHYS. 2018;102(3):477
DOI: <https://doi.org/10.1016/J.IJROBP.2018.07.1363>

Dosimetric Evaluation of Treatment Plans for a Biology-Guided Radiotherapy System in Treatment of Nasopharyngeal Cancer

C. Han, A. Liu, J. Liang, A. Da Silva, S. Zhang, J.Y.C. Wong
INT J RADIATION ONCOL BIOL PHYS. 2018;102(3):527
DOI: <https://doi.org/10.1016/J.IJROBP.2018.07.1482>

Dosimetry of Radiotherapy Machines with Intermediate Non-Equilibrium Field Sizes

L. Mirzakhani, R. Bassalow, C. Huntzinger, J. Seuntjens
RADIATION AND ONCOLOGY. 2018;127(1):996-97
DOI: [https://doi.org/10.1016/S0167-8140\(18\)32156-X](https://doi.org/10.1016/S0167-8140(18)32156-X)

Evaluation of a Prototype Treatment Planning System (TPS) for Biology-guided Radiotherapy (BgRT) in the Context of Stereotactic Body Radiation Therapy (SBRT) for Oligo-metastases

J. Partouche, S.J. Chmura, J.J. Luke, A. Da Silva, B. Aydogan
INT J RADIATION ONCOL BIOL PHYS. 2018;102(3):514-15
DOI: <https://doi.org/10.1016/J.IJROBP.2018.07.1454>

PSMA-directed Biologically-Guided Radiation Therapy of Castration-Sensitive Oligometastatic Prostate Cancer Patients

R. Phillips, A. Da Silva, N. Radwan, M. Gorin, S. Rowe, C. Deville, D. Song, S.C. Greco, K. Pienta, M.G. Pomper, T.L. DeWesse, J.W. Wong, P.T. Tran, K.K.H. Wang
INT J RADIATION ONCOL BIOL PHYS. 2018;102(3):152
DOI: <https://doi.org/10.1016/J.IJROBP.2018.06.367>

2015

Use of Emission Guided Radiation Therapy Can Better Spare Critical Structures Compared With Intensity Modulated Radiation Therapy, Volumetric Modulated Arc Therapy, or Proton Therapy

S. Seyedin, O. Mawlawi, L. Turner, S. Mazin, Y. Voronenko, P. Olcott, C. Wages, P. Balter, J. Chang, D. Gomez, R. Komaki, J. Welsh

INT J RADIATION ONCOL BIOL PHYS. 2015;93:612

DOI: <https://doi.org/10.1016/J.IJROBP.2015.07.2110>

2014

Dynamic Treatment of Clinical Margins Beyond the PET-Avid Target in Emission Guided Radiation Therapy: A Retrospective Patient Study

A. Nanduri, Q. Fan, J. Yang, T. Yamamoto, E. Graves, B. Loo, L. Zhu, S. Mazin

MED PHYS. 2014;41(6):571

DOI: <https://doi.org/10.1118/1.4889675>

The Potential of Positron Emission Tomography for Intratreatment Dynamic Lung Tumor Tracking: A Phantom Study

J. Yang, T. Yamamoto, S. Mazin, E. Graves, P. Keall

MED PHYS. 2014;41(2):021718

PMID: 24506609 / DOI: <https://doi.org/10.1118/1.4861816>

2013

Demonstration of a Planning Scheme for Emission Guided Radiation Therapy (EGRT) in a Metastatic Breast Cancer Patient

Q. Fan, A. Nanduri, J. Yang, T. Yamamoto, B. Loo, E Graves, L. Zhu, S. Mazin

MED PHYS. 2013;40

DOI: <https://doi.org/10.1118/1.4815196>

PET Attenuation Correction and Non-Specific Uptake Normalization for Emission Guided Radiation Therapy

Q. Fan, A. Nanduri, L. Zhu, S. Mazin

[NUCL MED. 2013;54\(2\):645](#)

Simultaneous Tracking of Multiple Metastases Using FDG-PET Emission-Guided Radiation Therapy (EGRT) in a Breast Cancer Patient

Q. Fan, A. Nanduri, J. Yang, T. Yamamoto, B. Loo, E Graves, L. Zhu, S. Mazin

INT J RADIATION ONCOL BIOL PHYS. 2013;87(2):95

[DOI: https://doi.org/10.1016/J.IJROBP.2013.06.246](https://doi.org/10.1016/J.IJROBP.2013.06.246)

Toward a Planning Scheme for Emission Guided Radiation Therapy (EGRT): FDG Based Tumor Tracking in a Metastasis Breast Cancer Patient

Q. Fan, A. Nanduri, J. Yang, T. Yamamoto, B. Loo, E Graves, L. Zhu, S. Mazin

MED PHYS. 2013;40(8):081708

PMID: 23927305 / [DOI: https://doi.org/10.1118/1.4812427](https://doi.org/10.1118/1.4812427)

2012

Emission Guided Radiation Therapy: A Simulation Study of Lung Cancer Treatment with Automatic Tumor Tracking Using a 4D Digital Patient Model

Q. Fan, A. Nanduri, L. Zhu, S. Mazin

MED PHYS. 2012;39:3922

[DOI: https://doi.org/10.1118/1.4736008](https://doi.org/10.1118/1.4736008)

Emission Guided Radiation Therapy (EGRT) for Lung and Prostate Cancers: A Feasibility Study on a Digital Patient

Q. Fan, A. Nanduri, S. Mazin, L. Zhu

MED PHYS. 2012;39(11):7140-52

PMID: 23127105 / [DOI: https://doi.org/10.1118/1.4761951](https://doi.org/10.1118/1.4761951)

2011

Lung Cancer Patient Feasibility Study for Emission Guided Radiation Therapy

S. Mazin, A. Nanduri, J. Yang, T. Yamamoto, B. Loo, E. Graves

MED PHYS. 2012;39:3888-89

DOI: <https://doi.org/10.1118/1.4735873>

A Feasibility Study for Real-Time Tumor Tracking Using Positron Emission Tomography (PET)

J. Yang, T. Yamamoto, K. Thielemens, S. Mazin, E. Graves, P. Keall

MED PHYS. 2011;38(6):3479

DOI: <https://doi.org/10.1118/1.3611924>

Free Breathing Motion Tracking in Emission Guided Radiation Therapy

S. Mazin, J. Yang, T. Yamamoto, A. Nanduri

MED PHYS. 2011;38(6):3478

DOI: <https://doi.org/10.1118/1.3611922>

2010

Emission Guided Radiation Therapy System: A Feasibility Study

S. Mazin, A. Nanduri, N. Pelc

MED PHYS. 2010;37

DOI: <https://doi.org/10.1118/1.3468226>

Emission Guided Radiation Therapy: A Simulation Study of Treatment Without Margin

Q. Fan, L. Zhu

MED PHYS. 2010;37

DOI: <https://doi.org/10.1118/1.3469024>

References cited describe research undertaken in the development of biology-guided radiotherapy (BgRT) and the RefleXion X1, and do not represent product performance. BgRT is limited to Investigational Use.