

Stanford



Billy W. Loo, Jr., MD, PhD, DABR

Professor of Radiation Oncology (Radiation Therapy) at the Stanford University Medical Center

Radiation Oncology - Radiation Therapy

CLINICAL OFFICES

- **Radiation Oncology**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Billy W. Loo, Jr., M.D., Ph.D. is a Professor of Radiation Oncology, a member of the Molecular Imaging Program at Stanford (MIPS) in the Department of Radiology, and a member of the Stanford Cancer Institute, in the School of Medicine. He is a physician-scientist Radiation Oncologist and Bioengineer who leads the Thoracic Radiation Oncology Program at Stanford.

His clinical specialties are state-of-the-art radiation therapy for lung/thoracic cancers, including stereotactic ablative radiotherapy (SABR) and 4-D image-guided radiation therapy for lung tumors. Dr. Loo is a recognized expert in thoracic cancers serving on multiple national committees (including as writing member, chair, or vice-chair) that publish clinical guidelines on the treatment of lung cancer and other thoracic malignancies, including the National Comprehensive Cancer Network (NCCN), American College of Radiology (ACR), and American Society of Radiation Oncology (ASTRO).

His clinical research is in clinical trials and implementation of new treatment techniques for lung cancer, and development of new medical imaging methods for measuring organ function and predicting response to cancer treatment. As part of this work, he leads a clinical and preclinical research program in molecular imaging, particularly using novel PET tracers for tumor hypoxia (EF5), tumor proliferation (FLT), and neuroinflammation (PBR06). He also co-leads clinical trials of novel applications of SABR including treatment of pulmonary emphysema and cardiac arrhythmias.

Since conceiving of a fundamentally new approach to delivering ultra-rapid, ultra-precise radiation therapy, pluridirectional high-energy agile scanning electronic radiotherapy (PHASER), Dr. Loo's major laboratory research focus has been to co-lead a collaborative effort between the Stanford Cancer Institute and SLAC National Accelerator Laboratory to develop PHASER into a transformative yet clinically practical technology. This program comprises both technology development and fundamental research on the radiobiology of extremely rapid FLASH radiation therapy to optimize the biological therapeutic index.

Dr. Loo received his MD from University of California, Davis and his PhD in Bioengineering from University of California, San Francisco and Berkeley. He completed his Radiation Oncology residency training at Stanford University. He is certified by the American Board of Radiology in Radiation Oncology.

CLINICAL FOCUS

- Cancer > Head and Neck Cancer
- Cancer > Radiation Oncology
- Cancer > Thoracic Oncology
- Lung Cancer
- Thoracic Cancers
- Stereotactic Ablative Radiotherapy (SABR)
- Radiation Oncology
- Radiation Therapy

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Radiation Oncology - Radiation Therapy
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director of Thoracic Radiation Oncology, Radiation Oncology, (2005- present)
- Director of New Technologies, Radiation Oncology, (2011- present)
- Director of VA Radiation Oncology Services, Radiation Oncology, (2019- present)

HONORS AND AWARDS

- Rapp/Rummelsberg Research Scholarship, - (1991)
- Research Scholarship, California Medical Education and Research Foundation (1992)
- Laboratory Graduate Fellowship, Associated Western Universities (1994, 1995)
- Regents Fellowship, University of California (1996)
- Graduate Student Research Award, University of California, San Francisco (1996)
- Malcolm A. Bagshaw Award, Stanford Radiation Oncology (2003)
- Molecular Biology in Clinical Oncology Workshop Scholarship, AACR (2004)
- Travel Grant Award, Best of ASCO Meeting, Denver, ASCO (2004)
- Roentgen Resident/Fellow Research Award, RSNA (2004)
- Basic Science Travel Grant, ASTRO (2005)
- Young Investigator Travel Grant, ECOG (2005)
- Henry S. Kaplan Memorial Prize for Teaching in Radiation Oncology, Stanford University (2009)
- Educator of the Year Award, Association of Residents in Radiation Oncology (2012)

PROFESSIONAL EDUCATION

- Residency: Stanford University Radiation Oncology Residency (2005) CA

- Internship: Kaiser Permanente Oakland Internal Medicine Residency (2001) CA
- Medical Education: University of California Davis School of Medicine (2000) CA
- Board Certification: Radiation Oncology, American Board of Radiology (2006)
- Ph.D., U.C. San Francisco, U.C. Berkeley, Bioengineering (2000)
- A.B., U.C. Berkeley, Biophysics (1989)

LINKS

- Dr. Loo's Bibliography: <https://www.ncbi.nlm.nih.gov/labs/bibliography/bill.loo.1/bibliography/public/>
- About PHASER #1: <https://engineering.stanford.edu/magazine/article/billy-loo-flash-radiation-therapy-brings-hope-cancer-patients>
- About PHASER #2: <https://physicsworld.com/a/phaser-linac-will-translate-flash-radiotherapy-to-the-clinic/>
- Dr. Loo's Home Page: <http://www.stanford.edu/~bwloo>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

As the Thoracic Radiation Oncology Program Leader, my clinical specialty is radiation therapy of lung and other thoracic cancers.

My clinical research focus is on clinical trials and clinical translation of advanced high-precision 4-D image-guided radiation therapy and stereotactic ablative radiotherapy (SABR), as well as novel indications of SABR such as severe pulmonary emphysema. I also conduct preclinical and translational research in novel functional and metabolic imaging and imaging biomarkers.

I co-lead a collaboration between the Department of Radiation Oncology and SLAC National Accelerator Laboratory to develop a next-generation ultra-rapid and precise medical linear accelerator system (PHASER), as well as a preclinical research program to study the radiobiology of ultra-rapid FLASH radiotherapy.

CLINICAL TRIALS

- CT Perfusion Imaging in Predicting Treatment Response in Patients With Non-small Cell Lung Cancer or Lung Metastases Treated With Stereotactic Ablative Radiation Therapy, Recruiting
- Identification of Secreted Markers for Tumor Hypoxia in Patients With Head and Neck or Lung Cancers, Recruiting
- Molecular Analysis of Thoracic Malignancies, Recruiting
- Novel Serum Markers for Monitoring Response to Anti-Cancer Therapy, Recruiting
- Radical-Dose Image Guided Radiation Therapy in Treating Patients With Metastatic Non-small Cell Lung Cancer Undergoing Immunotherapy, Recruiting
- SABR-ATAC: A Trial of TGF-beta Inhibition and Stereotactic Ablative Radiotherapy for Early Stage Non-small Cell Lung Cancer, Recruiting
- 4D-CT-based Ventilation Imaging for Adaptive Functional Guidance in Radiotherapy, Not Recruiting
- A Longitudinal Study of Plasma EBV DNA in Nasopharyngeal Carcinoma From Both Endemic and Non-Endemic Patient Populations, Not Recruiting
- BLP25 Liposome Vaccine and Bevacizumab After Chemotherapy and Radiation Therapy in Treating Patients With Newly Diagnosed Stage IIIA or Stage IIIB Non-Small Cell Lung Cancer That Cannot Be Removed by Surgery, Not Recruiting
- Breath Analysis for Evaluation of Radiation Exposure in Lung Cancer Patients Treated With Radiation, Not Recruiting
- Cervical Nodal Mets in Squamous Cell Carcinoma of H&N - MRI, FDG-PET, & Histopathologic Correlation, Not Recruiting
- Chemotherapy and Radiation Therapy With or Without Panitumumab in Treating Patients With Stage IIIA Non-Small Cell Lung Cancer, Not Recruiting
- CyberKnife Radiosurgical Treatment of Inoperable Early Stage Non-Small Cell Lung Cancer, Not Recruiting
- Endoscopic Capillary Oximetry for Tumor Diagnosis in Head and Neck Cancer, Not Recruiting
- Erlotinib Hydrochloride or Crizotinib and Chemoradiation Therapy in Treating Patients With Stage III Non-small Cell Lung Cancer, Not Recruiting

- Evaluation of Cyberknife Precision Radiation Delivery System for Unresectable Malignant Lung Cancer, Not Recruiting
- Feasibility of Using Real-time Cine-MRI for Treating Moving & Deforming Tumors, Not Recruiting
- High-Dose or Standard-Dose Radiation Therapy and Chemotherapy With or Without Cetuximab in Treating Patients With Newly Diagnosed Stage III Non-Small Cell Lung Cancer That Cannot Be Removed by Surgery, Not Recruiting
- Imaging and Biomarkers of Hypoxia in Solid Tumors, Not Recruiting
- Indirect Magnetic Resonance Lymphangiography of the Head and Neck Region Using Conventional Gadolinium-based Contrast, Not Recruiting
- Manuka Honey in Preventing Esophagitis-Related Pain in Patients Receiving Chemotherapy and Radiation Therapy For Lung Cancer, Not Recruiting
- Phase I Trial of Metabolic Reprogramming Therapy for Treatment of Recurrent Head and Neck Cancers, Not Recruiting
- Phase II Docetaxel / Carboplatin / XRT + Surgical Resection in Stage III NSCLC, Not Recruiting
- Phase II Trial of Individualized Lung Tumor Stereotactic Ablative Radiotherapy (iSABR), Not Recruiting
- Pulmonary Interstitial Lymphography in Early Stage Lung Cancer, Not Recruiting
- Radiation Therapy in Preventing Central Nervous System (CNS) Metastases in Patients With Non-Small Cell Lung Cancer, Not Recruiting
- Radiation Therapy in Treating Patients With Extensive Stage Small Cell Lung Cancer, Not Recruiting
- Radiation Therapy in Treating Patients With Stage I Non-Small Cell Lung Cancer, Not Recruiting
- Radiation Therapy Regimens in Treating Patients With Limited-Stage Small Cell Lung Cancer Receiving Cisplatin and Etoposide, Not Recruiting
- Randomized Study to Compare CyberKnife to Surgical Resection In Stage I Non-small Cell Lung Cancer, Not Recruiting
- Specialized Radiation Therapy in Treating Patients With Stage II, Stage III, Stage IV, or Recurrent Non-Small Cell Lung Cancer and Poor Performance Status, Not Recruiting
- Stereotactic Body Radiation Therapy in Treating Patients With Stage I or Stage II Non-Small Cell Lung Cancer That Can Be Removed By Surgery, Not Recruiting
- Study of Positron Emission Tomography and Computed Tomography in Guiding Radiation Therapy in Patients With Stage III Non-small Cell Lung Cancer, Not Recruiting
- Surgery With or Without Internal Radiation Therapy Compared With Stereotactic Body Radiation Therapy in Treating Patients With High-Risk Stage I Non-Small Cell Lung Cancer, Not Recruiting
- The Role of Audiovisual Biofeedback on Image Quality During 4D Anatomic and Functional Imaging, Not Recruiting
- The Role of FDG PET in Radiation Treatment Planning for Head and Neck Cancers, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Rakesh Manjappa, Jinghui Wang

Publications

PUBLICATIONS

- **Radiotherapy and Immunotherapy-Shining Further Together.** *JAMA oncology*
Walker, J., Loo, B. W.
2019
- **PHASER: A platform for clinical translation of FLASH cancer radiotherapy.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Maxim, P. G., Tantawi, S. G., Loo, B. W.
2019
- **The Promise of FLASH**
Koong, A., Pollard-Larkin, J., Dong, L., Loo, B.
WILEY.2019: E395

- **Conical beam geometry intensity-modulated radiation therapy.** *Physics in medicine and biology*
Schueler, E., Wang, L., Loo, B., Maxim, P. G.
2019
- **SABR-COMET: harbinger of a new cancer treatment paradigm** *LANCET*
Loo, B. W., Diehn, M.
2019; 393 (10185): 2013–14
- **Mortality of lung cancer as a second primary malignancy: A population-based cohort study.** *Cancer medicine*
Deng, L., Hardardottir, H., Song, H., Xiao, Z., Jiang, C., Wang, Q., Valdimarsdottir, U., Cheng, H., Loo, B. W., Lu, D.
2019
- **Lessons Learned from Hurricane Maria in Puerto Rico: Practical Measures to Mitigate the Impact of a Catastrophic Natural Disaster on Radiation Oncology Patients.** *Practical radiation oncology*
Gay, H. A., Santiago, R., Gil, B., Remedios, C., Montes, P. J., Lopez-Araujo, J., Chevere, C. M., Imbert, W. S., White, J., Arthur, D. W., Horton, J. K., Jagsi, R., Rabinovich, et al
2019
- **HyTEC: Organ-Specific Paper Thoracic: Lung TCP.** *International journal of radiation oncology, biology, physics*
Lee, P., Loo, B. W., Biswas, T., Ding, G. X., El Naqa, I. M., Jackson, A., Kong, F., LaCouture, T., Miften, M., Solberg, T., Tome, W. A., Tai, A., Yorke, et al
2019
- **Increases in Serial Pretreatment 18F-FDG PET-CT Metrics Predict Survival in Early Stage Non-Small Cell Lung Cancer Treated With Stereotactic Ablative Radiation Therapy.** *Advances in radiation oncology*
Prionas, N. D., von Eyben, R., Yi, E., Aggarwal, S., Shaffer, J., Bazan, J., Eastham, D., Maxim, P. G., Graves, E. E., Diehn, M., Gensheimer, M. F., Loo, B. W.
2019; 4 (2): 429–37
- **Reduced cognitive deficits after FLASH irradiation of whole mouse brain are associated with less hippocampal dendritic spine loss and neuroinflammation.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Simmons, D. A., Lartey, F. M., Schüller, E., Rafat, M., King, G., Kim, A., Ko, R., Semaan, S., Gonzalez, S., Jenkins, M., Pradhan, P., Shih, Z., Wang, et al
2019
- **FLT-PET-CT for the Detection of Disease Recurrence After Stereotactic Ablative Radiotherapy or Hyperfractionation for Thoracic Malignancy: A Prospective Pilot Study.** *Frontiers in oncology*
Hiniker, S. M., Sodji, Q., Quon, A., Gutkin, P. M., Arksey, N., Graves, E. E., Chin, F. T., Maxim, P. G., Diehn, M., Loo, B. W.
2019; 9: 467
- **The use of texture-based radiomics CT analysis to predict outcomes in early-stage non-small cell lung cancer treated with stereotactic ablative radiotherapy** *BRITISH JOURNAL OF RADIOLOGY*
Starkov, P., Aguilera, T. A., Golden, D., Shultz, D. B., Trakul, N., Maxim, P. G., Quynh-Thu Le, Loo, B. W., Diehn, M., Depeursinge, A., Rubin, D. L.
2019; 92 (1094)
- **The use of texture-based radiomics CT analysis to predict outcomes in early-stage non-small cell lung cancer treated with stereotactic ablative radiotherapy.** *The British journal of radiology*
Starkov, P., Aguilera, T. A., Golden, D. I., Shultz, D. B., Trakul, N., Maxim, P. G., Le, Q., Loo, B. W., Diehn, M., Depeursinge, A., Rubin, D. L.
2018: 20180228
- **A Quantitative CT Imaging Signature Predicts Survival and Complements Established Prognosticators in Stage I Non-Small Cell Lung Cancer** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Lee, J., Li, B., Cui, Y., Sun, X., Wu, J., Zhu, H., Yu, J., Gensheimer, M. F., Loo, B. W., Diehn, M., Li, R.
2018; 102 (4): 1098–1106
- **F-18-EF5 PET-based Imageable Hypoxia Predicts Local Recurrence in Tumors Treated With Highly Conformal Radiation Therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Qian, Y., Von Eyben, R., Liu, Y., Chin, F. T., Miao, Z., Apte, S., Carter, J. N., Binkley, M. S., Pollom, E. L., Harris, J. P., Prionas, N. D., Kissel, M., Simmons, et al
2018; 102 (4): 1183–92
- **Analysis of Circulating Tumor DNA Kinetics during Stereotactic Ablative Radiation Therapy for Non-Small Cell Lung Cancer**
Chen, E. L., Chaudhuri, A. A., Nabet, B. Y., Chabon, J. J., Merriott, D. J., Loo, B. W., Alizadeh, A. A., Diehn, M.
ELSEVIER SCIENCE INC.2018: E676

- **Radiologic Quantification and Predictors of Lung Fibrosis after Stereotactic Ablative Radiation Therapy(SABR)**
Ross, J. B., Schueler, E., Ko, R., Bush, K., Maxim, P. G., Gensheimer, M. F., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2018: E703
- **Esophagitis in Patients Treated with Thoracic Stereotactic Ablative Radiation Therapy (SABR) to Tumors within 2 cm of the Esophagus**
Quaovi, S., Ko, R., Bush, K., Binkley, M. S., Pickthorn, W., Maxim, P. G., Gensheimer, M. F., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2018: E666
- **Predicting Per-Lesion Local Recurrence in Locally Advanced Lung Cancer using Metabolic Tumor Volume on Pre- and Mid-Radiation FDG-PET**
Binkley, M. S., Koenig, J. L., Sodji, Q., Maxim, P. G., Diehn, M., Loo, B. W., Gensheimer, M. F.
ELSEVIER SCIENCE INC.2018: E674
- **Pulmonary Interstitial Lymphography and Patterns of Recurrence after Stereotactic Ablative Radiation Therapy(SABR) of Lung Tumors**
Ko, R. B., Abelson, J. A., Kothary, N., Fleischmann, D., Hofmann, L., Hovsepian, D., Louie, J. D., Hwang, G., Sze, D. H., Kielar, K., Maxim, P. G., Le, Q. T., Diehn, et al
ELSEVIER SCIENCE INC.2018: E689
- **Invasive nodal evaluation prior to stereotactic ablative radiation for non-small cell lung cancer** *LUNG CANCER*
Harris, J. P., Nwachukwu, C., Qian, Y., Pollom, E., Loo, B. W., Das, M., Diehn, M.
2018; 124: 76–85
- **NCCN Guidelines Insights: Small Cell Lung Cancer, Version 2.2018.** *Journal of the National Comprehensive Cancer Network : JNCCN*
Kalemkerian, G. P., Loo, B. W., Akerley, W., Attia, A., Bassetti, M., Boumber, Y., Decker, R., Dobelbower, M. C., Dowlati, A., Downey, R. J., Florsheim, C., Ganti, A. K., Grecula, et al
2018; 16 (10): 1171–82
- **The Future of Stereotactic Ablative Radiotherapy (SABR)**
Loo, B.
ELSEVIER SCIENCE INC.2018: S283–S284
- **Invasive nodal evaluation prior to stereotactic ablative radiation for non-small cell lung cancer.** *Lung cancer (Amsterdam, Netherlands)*
Harris, J. P., Nwachukwu, C., Qian, Y., Pollom, E., Loo, B. W., Das, M., Diehn, M.
2018; 124: 76–85
- **Stereotactic Body Radiation Therapy for Operable Early-Stage Lung Cancer Findings From the NRG Oncology RTOG 0618 Trial** *JAMA ONCOLOGY*
Timmerman, R. D., Paulus, R., Pass, H. I., Gore, E. M., Edelman, M. J., Galvin, J., Straube, W. L., Nedzi, L. A., McGarry, R. C., Robinson, C. G., Schiff, P. B., Chang, G., Loo, et al
2018; 4 (9): 1263–66
- **Changing the global radiation therapy paradigm** *RADIOTHERAPY AND ONCOLOGY*
Pistenmaa, D. A., Dosanjh, M., Amaldi, U., Jaffray, D., Zubizarreta, E., Holt, K., Lievens, Y., Pipman, Y., Coleman, C., Workshop Participants
2018; 128 (3): 393–99
- **Prognostic Value of Pretreatment FDG-PET Parameters in High-dose Image-guided Radiotherapy for Oligometastatic Non-Small-cell Lung Cancer** *CLINICAL LUNG CANCER*
Chin, A. L., Kumar, K. A., Guo, H. H., Maxim, P. G., Wakelee, H., Neal, J. W., Diehn, M., Loo, B. W., Gensheimer, M. F.
2018; 19 (5): E581–E588
- **NCCN Guidelines Insights: Non-Small Cell Lung Cancer, Version 5.2018.** *Journal of the National Comprehensive Cancer Network : JNCCN*
Ettinger, D. S., Aisner, D. L., Wood, D. E., Akerley, W., Bauman, J., Chang, J. Y., Chirieac, L. R., D'Amico, T. A., Dilling, T. J., Dobelbower, M., Govindan, R., Gubens, M. A., Hennon, et al
2018; 16 (7): 807–21
- **Chest wall dose reduction using noncoplanar volumetric modulated arc radiation therapy for lung stereotactic ablative radiation therapy** *PRACTICAL RADIATION ONCOLOGY*
Yu, A. S., Maxim, P. G., Loo, B. W., Gensheimer, M. F.
2018; 8 (4): E199–E207
- **Feasibility of a Novel Conical Beams Arrangement in Radiation Therapy**
Schueler, E., Wang, L., Loo, B., Maxim, P.

WILEY.2018: E127

- **Circulating Tumor DNA Quantitation for Early Response Assessment of Immune Checkpoint Inhibitors for Metastatic Non-Small Cell Lung Cancer**
Chaudhuri, A. A., Nabet, B. Y., Merriott, D. J., Jin, M., Chen, E. L., Chabon, J. J., Newman, A. M., Stehr, H., Say, C., Carter, J. N., Walters, S., Becker, H., Das, et al
ELSEVIER SCIENCE INC.2018: E1–E2
- **Biological effects by the next generation of ultra-fast dose rate ionizing radiation 'FLASH'**
Kim, H., Hong, B., Shueler, E., Rafat, M., Maxim, P., Loo, B. J., Ahn, G.
ELSEVIER IRELAND LTD.2018: S301
- **A Feasibility Study of Single-inhalation, Single-energy Xenon-enhanced CT for High-resolution Imaging of Regional Lung Ventilation in Humans.** *Academic radiology*
Pinkham, D. W., Negahdar, M., Yamamoto, T., Mittra, E., Diehn, M., Nair, V. S., Keall, P. J., Maxim, P. G., Loo, B. W.
2018
- **Optimal imaging surveillance after stereotactic ablative radiation therapy for early-stage non-small cell lung cancer: Findings of an International Delphi Consensus Study** *PRACTICAL RADIATION ONCOLOGY*
Nguyen, T. K., Senan, S., Bradley, J. D., Franks, K., Giuliani, M., Guckenberger, M., Landis, M., Loo, B. W., Louie, A. V., Onishi, H., Schmidt, H., Timmerman, R., Videtic, et al
2018; 8 (2): E71–E78
- **A Quantitative CT Imaging Signature Predicts Survival and Complements Established Prognosticators in Stage I Non-Small Cell Lung Cancer.** *International journal of radiation oncology, biology, physics*
Lee, J., Li, B., Cui, Y., Sun, X., Wu, J., Zhu, H., Yu, J., Gensheimer, M. F., Loo, B. W., Diehn, M., Li, R.
2018
- **Line-Enhanced Deformable Registration of Pulmonary Computed Tomography Images Before and After Radiation Therapy With Radiation-Induced Fibrosis** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
King, M., Sensakovic, W. F., Maxim, P., Diehn, M., Loo, B. W., Xing, L.
2018; 17
- **Line-Enhanced Deformable Registration of Pulmonary Computed Tomography Images Before and After Radiation Therapy With Radiation-Induced Fibrosis.** *Technology in cancer research & treatment*
King, M., Sensakovic, W. F., Maxim, P., Diehn, M., Loo, B. W., Xing, L.
2018; 17: 1533034617749419
- **18F-EF5 PET-based Imageable Hypoxia Predicts Local Recurrence in Tumors Treated With Highly Conformal Radiation Therapy.** *International journal of radiation oncology, biology, physics*
Qian, Y., Von Eyben, R., Liu, Y., Chin, F. T., Miao, Z., Apte, S., Carter, J. N., Binkley, M. S., Pollom, E. L., Harris, J. P., Prionas, N. D., Kissel, M., Simmons, et al
2018
- **Prognostic Value of Pretreatment FDG-PET Parameters in High-dose Image-guided Radiotherapy for Oligometastatic Non-Small-cell Lung Cancer.** *Clinical lung cancer*
Chin, A. L., Kumar, K. A., Guo, H. H., Maxim, P. G., Wakelee, H., Neal, J. W., Diehn, M., Loo, B. W., Gensheimer, M. F.
2018
- **Mid-radiotherapy PET/CT for prognostication and detection of early progression in patients with stage III non-small cell lung cancer** *RADIOTHERAPY AND ONCOLOGY*
Gensheimer, M. F., Hong, J. C., Chang-Halpenny, C., Zhu, H., Eclov, N. W., To, J., Murphy, J. D., Wakelee, H. A., Neal, J. W., Le, Q., Hara, W. Y., Quon, A., Maxim, et al
2017; 125 (2): 338–43
- **Practical workflow for rapid prototyping of radiation therapy positioning devices** *PRACTICAL RADIATION ONCOLOGY*
Gensheimer, M. F., Bush, K., Juang, T., Herzberg, B., Villegas, M., Maxim, P. G., Diehn, M., Loo, B. W.
2017; 7 (6): 442–45
- **Clinical and Pathological Variables Influencing Noninvasive Detection of Early Stage Lung Cancer Using Circulating Tumor DNA**
Chabon, J., Chaudhuri, A., Azad, T., Kurtz, D., Stehr, H., Liu, C. L., Martin, J., Merriott, D., Carter, J., Ayers, K., Mansfield, A., Jen, J., Ren, et al
ELSEVIER SCIENCE INC.2017: S1851

- **Comparison of Circulating Tumor DNA Analysis and Surveillance Imaging After Treatment for Localized Lung Cancer**
Chaudhuri, A. A., Chabon, J. J., Lovejoy, A. F., Newman, A., Stehr, H., Azad, T. D., Carter, J. N., Merriott, D. J., Liu, C. L., Kurtz, D. M., Gensheimer, M. F., Shrager, J. B., Wakelee, et al
ELSEVIER SCIENCE INC.2017: S114
- **Safety and Efficacy of Stereotactic Ablative Radiotherapy (SABR) to Multiple (3 or More) Lung Tumors**
Moding, E. J., Maxim, P. G., Diehn, M., Loo, B. W., Gensheimer, M. F.
ELSEVIER SCIENCE INC.2017: E482
- **Outcomes of Moderately Hypofractionated Intensity-Modulated Thoracic Radiotherapy with Concurrent Chemotherapy for Treatment of Non-Small Cell Lung Cancer**
Xiang, M., Gensheimer, M. F., Maxim, P. G., Wakelee, H. A., Neal, J. W., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2017: E504
- **Mid-radiation Therapy PET/CT for Prognostication and Detection of Early Progression in Patients With Stage III Non-small Cell Lung Cancer**
Gensheimer, M. F., Hong, J. C., Chang-Halpenny, C. N., Eclov, N., To, J., Murphy, J. D., Wakelee, H. A., Neal, J. W., Le, Q. T., Hara, W., Quon, A., Maxim, P. G., Graves, et al
ELSEVIER SCIENCE INC.2017: E456
- **Lesion Response to Stereotactic Body Radiation Therapy Concurrent With Nelfinavir for Solid Tumor Oligometastases**
Yan, J., Tran, P. T., Hu, C., McIntyre, R., Di Pasquale, S., Kim, H., Loo, B. W., Hales, R. K., Herman, J., Terezakis, S. A.
ELSEVIER SCIENCE INC.2017: E529
- **Impact of Audio-Visual Assisted Therapeutic Ambience in Radiotherapy (AVATAR) on Anesthesia Use, Cost, and Time in Pediatric Patients**
Balazy, K. E., Hiniker, S. M., Bush, K., Fowler, T. L., White, E. C., Rodriguez, S., Maxim, P. G., Donaldson, S. S., Loo, B. W.
ELSEVIER SCIENCE INC.2017: E564–E565
- **Single-Arm Phase 2 Study of Stereotactic Body Radiation Therapy (SBRT) Concurrent with Nelfinavir for Solid Tumor Oligometastases**
Terezakis, S. A., Herman, J., Hu, C., Yan, J., Di Pasquale, S., McIntyre, R., Kim, H., Loo, B. W., Hales, R. K., Tran, P. T.
ELSEVIER SCIENCE INC.2017: S221
- **Circulating Tumor DNA Quantitation for Early Response Assessment of Immune Checkpoint Inhibitors for Lung Cancer**
Merriott, D. J., Chaudhuri, A. A., Jin, M., Chabon, J. J., Newman, A., Stehr, H., Say, C., Carter, J. N., Walters, S., Becker, H. R., Das, M., Padda, S., Loo, et al
ELSEVIER SCIENCE INC.2017: S20–S21
- **Circulating Tumor DNA Analysis during Radiation Therapy for Localized Lung Cancer Predicts Treatment Outcome**
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