



## Michael Gensheimer

Clinical Associate Professor, Radiation Oncology - Radiation Therapy

### CLINICAL OFFICE (PRIMARY)

- **Radiation Oncology**

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### ACADEMIC CONTACT INFORMATION

- **Clinical**

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## Bio

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### CLINICAL FOCUS

- Radiation Oncology
- Head and neck cancer
- Lung cancer
- Skin cancer

### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiation Oncology - Radiation Therapy
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Stanford Cancer Institute

### ADMINISTRATIVE APPOINTMENTS

- Member, Data and Safety Monitoring Committee, Stanford Cancer Institute, (2018- present)
- Chair, Data and Safety Monitoring Committee, Stanford Cancer Institute, (2020- present)

### HONORS AND AWARDS

- ESMO Congress Merit Award, European Society for Medical Oncology (2018)
- Henry S. Kaplan Memorial Prize for Teaching, Stanford Radiation Oncology Residency Program (2022)
- HIMSS Davies Award of Excellence (project lead), Healthcare Information and Management Systems Society (2023)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Annual Meeting Education Committee, American Society for Radiation Oncology (2019 - 2023)
- Member, Head and Neck Cancer General Committee, NRG Oncology (2022 - present)

## PROFESSIONAL EDUCATION

- Medical Education: Vanderbilt University School of Medicine (2010) TN
- Residency: University of Washington Dept of Radiation Oncology (2015) WA
- Board Certification: Radiation Oncology, American Board of Radiology (2016)
- Internship: Johns Hopkins Hospital Internal Medicine Residency (2011) MD
- AB with honors, Harvard College , Physics (2005)

## LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- My research home page: <https://web.stanford.edu/~mgens/>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

In addition to my clinical research in head and neck and lung cancer, I work on the application of computer science and machine learning to cancer research. I develop tools for analyzing large datasets to improve outcomes and safety of cancer treatment. I developed a machine learning prognostic model using data from around 13,000 patients with metastatic cancer which performs better than traditional models and physicians [PubMed ID 33313792]. We recently completed a prospective randomized study in thousands of patients in which the model was used to help improve advance care planning conversations.

I also work on the methods underpinning observational and predictive modeling research. My open source nnet-survival software that allows use of neural networks for survival modeling has been used by researchers internationally. In collaboration with the Stanford Research Informatics Center, I examined how electronic medical record (EMR) survival outcome data compares to gold-standard data from a cancer registry [PubMed ID 35802836]. The EMR data captured less than 50% of deaths, a finding that affects many studies being published that use EMR outcomes data.

### CLINICAL TRIALS

- Testing Docetaxel-Cetuximab or the Addition of an Immunotherapy Drug, Atezolizumab, to the Usual Chemotherapy and Radiation Therapy in High-Risk Head and Neck Cancer, Recruiting
- Radical RADiotherapy and Immunotherapy for Metastatic CAncer of the Lung (RRADICAL), Not Recruiting

## Publications

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### PUBLICATIONS

- **Large language model-augmented learning for auto-delineation of treatment targets in head-and-neck cancer radiotherapy.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*  
Rajendran, P., Yang, Y., Niedermayr, T. R., Gensheimer, M., Beadle, B., Le, Q. T., Xing, L., Dai, X.  
2025: 110740
- **Automated Deep Learning-Based Detection and Segmentation of Lung Tumors at CT.** *Radiology*  
Kashyap, M., Wang, X., Panjwani, N., Hasan, M., Zhang, Q., Huang, C., Bush, K., Chin, A., Vitzthum, L. K., Dong, P., Zaky, S., Loo, B. W., Diehn, et al  
2025; 314 (1): e233029
- **Automated patient selection and care coaches to increase advance care planning for cancer patients.** *Journal of the National Cancer Institute*  
Gensheimer, M. F., Teuteberg, W., Patel, M. I., Gupta, D., Noroozi, M., Ling, X., Fardeen, T., Seevaratnam, B., Lu, Y., Alves, N., Rogers, B., Asuncion, M. K., Denofrio, et al  
2024

- **A phase 2 single-arm trial of high-dose precision targeted radiotherapy added to immunotherapy for patients with metastatic non-small cell lung cancer.** *International journal of radiation oncology, biology, physics*  
Gensheimer, M. F., Kotha, N. V., Vitzthum, L. K., Chin, A. L., Jackson, S., t Erve, I. v., Prapatneni, A., Le-Budka, M. L., Wong, S., Brown, E., Barnick, K., Wakelee, H. A., Das, et al  
2024
- **RADIOMICS-BASED PREDICTION OF RECURRENCEFREE SURVIVAL IN OROPHARYNGEAL SQUAMOUS CELL CARCINOMA PATIENTS UNDERGOING CHEMORADIOTHERAPY: DEVELOPMENT AND VALIDATION OF A PROGNOSTIC MODEL**  
Sit, D., Cui, S., Gensheimer, M., Beadle, B., Quynh-Thu Le, Li, R.  
ELSEVIER IRELAND LTD.2024: S14-S15
- **Large Language Model-Augmented Auto-Delineation of Treatment Target Volume in Radiation Therapy.** *ArXiv*  
Rajendran, P., Yang, Y., Niedermayr, T. R., Gensheimer, M., Beadle, B., Le, Q. T., Xing, L., Dai, X.  
2024
- **Commissioning of a novel PET-Linac for biology-guided radiotherapy (BgRT).** *Medical physics*  
Surucu, M., Ashraf, M. R., Romero, I. O., Zalavari, L. T., Pham, D., Vitzthum, L. K., Gensheimer, M. F., Yang, Y., Xing, L., Kovalchuk, N., Han, B.  
2024
- **Construction of clinically meaningful loss function for improved medical image auto-segmentation**  
Chen, Y., Gensheimer, M., Quynh-Thu Le, Han, B., Xing, L.  
ELSEVIER IRELAND LTD.2024: S3138-S3141
- **Chest wall pain after single-fraction thoracic stereotactic ablative Radiotherapy: Dosimetric analysis from the iSABR trial.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*  
Lau, B., Wu, Y. F., Cui, S., Fu, J., Jackson, S., Pham, D., Dubrowski, P., Eswarappa, S., Skinner, L., Shirato, H., Taguchi, H., Gensheimer, M. F., Gee, et al  
2024: 110317
- **Surrogate endpoints in clinical trials of p16-positive squamous cell carcinoma of the oropharynx: an individual patient data meta-analysis.** *The Lancet. Oncology*  
Gharzai, L. A., Morris, E., Suresh, K., Nguyen-Tân, P. F., Rosenthal, D. I., Gillison, M. L., Harari, P. M., Garden, A. S., Koyfman, S., Caudell, J. J., Jones, C. U., Mitchell, D. L., Krempl, et al  
2024; 25 (3): 366-375
- **First-Year Experience of Stereotactic Body Radiation Therapy/Intensity Modulated Radiation Therapy Treatment Using a Novel Biology-Guided Radiation Therapy Machine.** *Advances in radiation oncology*  
Shi, M., Simiele, E., Han, B., Pham, D., Palomares, P., Aguirre, M., Gensheimer, M., Vitzthum, L., Le, Q., Surucu, M., Kovalchuk, N.  
2024; 9 (1): 101300
- **BIOGUIDE-X: A First-in-Human Study of the Performance of Positron Emission Tomography-Guided Radiotherapy.** *International journal of radiation oncology, biology, physics*  
Vitzthum, L. K., Surucu, M., Gensheimer, M. F., Kovalchuk, N., Han, B., Pham, D., Chang, D., Shirvani, S. M., Aksoy, D., Maniyedath, A., Narayanan, M., Da Silva, A. J., Mazin, et al  
2023
- **Lessons Learned from a Multi-Site, Team-Based Serious Illness Care Program Implementation at an Academic Medical Center.** *Journal of palliative medicine*  
Seevaratnam, B., Wang, S., Fong, R., Hui, F., Callahan, A., Chobot, S., Gensheimer, M. F., Li, R. C., Nguyen, D., Ramchandran, K., Shah, N. H., Shieh, L., Zeng, et al  
2023
- **Individualized Stereotactic Ablative Radiotherapy for Lung Tumors: The iSABR Phase 2 Nonrandomized Controlled Trial.** *JAMA oncology*  
Gensheimer, M. F., Gee, H., Shirato, H., Taguchi, H., Snyder, J. M., Chin, A. L., Vitzthum, L. K., Maxim, P. G., Wakelee, H. A., Neal, J., Das, M., Chang, D. T., Kidd, et al  
2023
- **Cancer Informatics for Cancer Centers: Sharing Ideas on How to Build an Artificial Intelligence-Ready Informatics Ecosystem for Radiation Oncology.** *JCO clinical cancer informatics*  
Bitterman, D. S., Gensheimer, M. F., Jaffray, D., Pryma, D. A., Jiang, S. B., Morin, O., Ginart, J. B., Upadhaya, T., Vallis, K. A., Buatti, J. M., Deasy, J., Hsiao, H. T., Chung, et al

2023; 7: e2300136

- **Potential Biases in a Population-based Study of Surveillance Imaging for Head and Neck Cancer.** *Radiology*  
Gensheimer, M. F.  
2023; 308 (2): e230286
- **Lessons and Opportunities for Biomarker-Driven Radiation Personalization in Head and Neck Cancer.** *Seminars in radiation oncology*  
Rahimy, E., Gensheimer, M. F., Beadle, B., Le, Q. T.  
2023; 33 (3): 336-347
- **Study of Patient and Physician Attitudes Toward Automated Prognostic Models for Patients With Metastatic Cancer.** *JCO clinical cancer informatics*  
Hildebrand, R. D., Chang, D. T., Ewongwoo, A. N., Ramchandran, K. J., Gensheimer, M. F.  
2023; 7: e2300023
- **Adaptive Region-Specific Loss for Improved Medical Image Segmentation.** *IEEE transactions on pattern analysis and machine intelligence*  
Chen, Y., Yu, L., Wang, J., Panjwani, N., Obeid, J., Liu, W., Liu, L., Kovalchuk, N., Gensheimer, M. F., Vitzthum, L. K., Beadle, B. M., Chang, D. T., Le, et al  
2023; PP
- **Predicting benefit from immune checkpoint inhibitors in patients with non-small-cell lung cancer by CT-based ensemble deep learning: a retrospective study.** *The Lancet. Digital health*  
Saad, M. B., Hong, L., Aminu, M., Vokes, N. I., Chen, P., Salehjehromi, M., Qin, K., Sujit, S. J., Lu, X., Young, E., Al-Tashi, Q., Qureshi, R., Wu, et al  
2023
- **Unilateral diaphragmatic paralysis after stereotactic ablative radiotherapy to a lung tumor abutting the course of the phrenic nerve.** *Practical radiation oncology*  
Eke, I., Guo, H. H., Loo, J. B., Sung, A. W., Diehn, M., Vitzthum, L., Chin, A. L., Gensheimer, M. F.  
2023
- **Patient-specific Auto-segmentation on Daily kVCT Images for Adaptive Radiotherapy.** *International journal of radiation oncology, biology, physics*  
Chen, Y., Gensheimer, M. F., Bagshaw, H. P., Butler, S., Yu, L., Zhou, Y., Shen, L., Kovalchuk, N., Surucu, M., Chang, D. T., Xing, L., Han, B.  
2023
- **Pulmonary Hemorrhage in Patients Treated with Thoracic Stereotactic Ablative Radiotherapy and Anti-Angiogenic Agents.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*  
Lau, B., Wu, Y. F., No, H. J., Ko, R. B., Devine, M., Das, M. S., Neal, J. W., Wakelee, H. A., Ramchandran, K., Gensheimer, M. F., Diehn, M., Chin, A. L., Loo, et al  
2023
- **Stratified assessment of an FDA-cleared deep learning algorithm for automated detection and contouring of metastatic brain tumors in stereotactic radiosurgery.** *Radiation oncology (London, England)*  
Wang, J. Y., Qu, V., Hui, C., Sandhu, N., Mendoza, M. G., Panjwani, N., Chang, Y. C., Liang, C. H., Lu, J. T., Wang, L., Kovalchuk, N., Gensheimer, M. F., Soltys, et al  
2023; 18 (1): 61
- **Mitigation of IMRT/SBRT treatment planning errors on the RefleXion X1 system using FMEA within Six Sigma framework** *Advances in Radiation Oncology*  
Simiele, E., Han, B., Skinner, L., Pham, D., Lewis, J., Gensheimer, M., Vitzthum, L., Chang, D., Surucu, M., Kovalchuk, N.  
2023
- **Improving lung cancer screening rates among patients with head and neck cancer in a radiation oncology clinic.** *Journal of thoracic disease*  
Soto, L., Nesbit, S., Ramsey, M., Gensheimer, M. F., Le, Q. T., Beadle, B. M., Lui, N. S.  
2022; 14 (12): 4633-4640
- **Use of Machine Learning and Lay Care Coaches to Increase Advance Care Planning Conversations for Patients With Metastatic Cancer.** *JCO oncology practice*  
Gensheimer, M. F., Gupta, D., Patel, M. I., Fardeen, T., Hildebrand, R., Teuteberg, W., Seevaratnam, B., Asuncion, M. K., Alves, N., Rogers, B., Hansen, J., DeNofrio, J., Shah, et al  
2022: OP2200128

- **Improving lung cancer screening rates among patients with head and neck cancer in a radiation oncology clinic** *JOURNAL OF THORACIC DISEASE*  
Soto, L., Nesbit, S., Ramsey, M., Gensheimer, M. F., Le, Q., Beadle, B. M., Lui, N. S.  
2022
- **Safety of nivolumab added to chemoradiotherapy platforms for intermediate and high-risk local-regionally advanced head and neck squamous cell carcinoma: RTOG Foundation 3504.** *International journal of radiation oncology, biology, physics*  
Gillison, M. L., Ferris, R. L., Harris, J., Colevas, A. D., Mell, L. K., Kong, C., Jordan, R. C., Moore, K. L., Truong, M., Kirsch, C., Chakravarti, A., Blakaj, D. M., Clump, et al  
2022
- **Dosimetric Predictors of Local Control after Stereotactic Ablative Radiotherapy (SABR) for Lung Tumors: A Secondary Analysis of a Phase II Prospective Trial of Individualized SABR (iSABR)**  
Wu, Y., Lau, B., Fu, J., Skinner, L., Gensheimer, M., Gee, H., Diehn, M., Loo, B., Chin, A., Vitzthum, L.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S16
- **Posttreatment FDG-PET/CT Hopkins criteria predict locoregional recurrence after definitive radiotherapy for oropharyngeal squamous cell carcinoma.** *Head & neck*  
Miller, J. A., Moradi, F., Sundaram, V., Liang, R., Zhang, C., Nguyen, N. K., Akhtar, F., Liu, Y., Ren, Y., Harandi, N., Weng, Y., Pollom, E. L., Colevas, et al  
2022
- **Use of systemic cancer treatments based on a validated survival prediction model in metastatic cancer.**  
Roy, M., Gensheimer, M. F., Chang, D., Singhal, S., Khaki, A.  
LIPPINCOTT WILLIAMS & WILKINS.2022
- **Accuracy of Electronic Medical Record Follow-Up Data for Estimating the Survival Time of Patients With Cancer.** *JCO clinical cancer informatics*  
Gensheimer, M. F., Narasimhan, B., Henry, A. S., Wood, D. J., Rubin, D. L.  
2022; 6: e2200019
- **De-escalating elective nodal irradiation for nasopharyngeal carcinoma.** *The Lancet. Oncology*  
Miller, J. A., Beadle, B. M., Gensheimer, M. F., Le, Q.  
2022
- **Uncovering interpretable potential confounders in electronic medical records.** *Nature communications*  
Zeng, J., Gensheimer, M. F., Rubin, D. L., Athey, S., Shachter, R. D.  
2022; 13 (1): 1014
- **Considerations in the reliability and fairness audits of predictive models for advance care planning** *Frontiers in Digital Health*  
Lu, J., Sattler, A., Wang, S., Khaki, A. R., Callahan, A., Fleming, S., Fong, R., Ehlert, B., Li, R., Shieh, L., Ramchandran, K., Gensheimer, M., Chobot, et al  
2022: 943768
- **IMRT and SBRT Treatment Planning Study for the First Clinical Biology-Guided Radiotherapy System.** *Technology in cancer research & treatment*  
Pham, D., Simiele, E., Breikreutz, D., Capaldi, D., Han, B., Surucu, M., Oderinde, S., Vitzthum, L., Gensheimer, M., Bagshaw, H., Chin, A., Xing, L., Chang, et al  
2022; 21: 15330338221100231
- **Acute and Late Esophageal Toxicity Following Stereotactic Ablative Radiotherapy to Thoracic Tumors near or Abutting the Esophagus.** *International journal of radiation oncology, biology, physics*  
Sodji, Q. H., Ko, R., von Eyben, R., Owen, S. G., Capaldi, D. P., Bush, K., Binkley, M. S., Alrowais, F., Pickthorn, B., Maxim, P. G., Gensheimer, M. F., Diehn, M., Loo, et al  
1800
- **Human-level comparable control volume mapping with a deep unsupervised-learning model for image-guided radiation therapy.** *Computers in biology and medicine*  
Liang, X., Bassenne, M., Hristov, D. H., Islam, M. T., Zhao, W., Jia, M., Zhang, Z., Gensheimer, M., Beadle, B., Le, Q., Xing, L.  
1800; 141: 105139

- **Local Recurrence Outcomes of Colorectal Cancer Oligometastases Treated With Stereotactic Ablative Radiotherapy.** *American journal of clinical oncology*  
Benson, K. R., Sandhu, N., Zhang, C., Ko, R., Toesca, D. A., Lee, P. E., Von Eyben, R., Diehn, M., Gensheimer, M., Maxim, P. G., Bush, K., Loo, B. W., Soltys, et al  
2021
- **Radiological tumor classification across imaging modality and histology.** *Nature machine intelligence*  
Wu, J., Li, C., Gensheimer, M., Padda, S., Kato, F., Shirato, H., Wei, Y., Schönlieb, C. B., Price, S. J., Jaffray, D., Heymach, J., Neal, J. W., Loo, et al  
2021; 3: 787-798
- **Radiological tumour classification across imaging modality and histology** *NATURE MACHINE INTELLIGENCE*  
Wu, J., Li, C., Gensheimer, M., Padda, S., Kato, F., Shirato, H., Wei, Y., Schonlieb, C., Price, S., Jaffray, D., Heymach, J., Neal, J. W., Loo, et al  
2021
- **Natural Language Processing to Identify Cancer Treatments With Electronic Medical Records.** *JCO clinical cancer informatics*  
Zeng, J., Banerjee, I., Henry, A. S., Wood, D. J., Shachter, R. D., Gensheimer, M. F., Rubin, D. L.  
2021; 5: 379–93
- **Postoperative Observation Versus Radiotherapy for Pathologic N1 Oral Cavity Squamous Cell Carcinoma.** *American journal of clinical oncology*  
Xiang, M. n., Holsinger, F. C., Gensheimer, M. F., Divi, V. n., Pollom, E. L., Colevas, A. D., Le, Q. T., Beadle, B. M.  
2021; Publish Ahead of Print
- **Treatment Breaks During Definitive Head/Neck Radiotherapy: Survival Impact and Predisposing Factors**  
Xiang, M., Gensheimer, M., Pollom, E., Holsinger, F., Colevas, A., Quynh-Thu Le, Beadle, B.  
ELSEVIER SCIENCE INC.2020: E39
- **Automated model versus treating physician for predicting survival time of patients with metastatic cancer.** *Journal of the American Medical Informatics Association : JAMIA*  
Gensheimer, M. F., Aggarwal, S. n., Benson, K. R., Carter, J. N., Henry, A. S., Wood, D. J., Soltys, S. G., Hancock, S. n., Pollom, E. n., Shah, N. H., Chang, D. T.  
2020
- **Cancer Treatment Classification with Electronic Medical Health Records**  
Zeng, J., Banerjee, I., Gensheimer, M., Rubin, D., Assoc Advancement Artificial Intelligence  
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2020: 13981-13982
- **Predicting per-lesion local recurrence in locally advanced non-small cell lung cancer following definitive radiation therapy using pre- and mid-treatment metabolic tumor volume.** *Radiation oncology (London, England)*  
Binkley, M. S., Koenig, J. L., Kashyap, M. n., Xiang, M. n., Liu, Y. n., Sodji, Q. n., Maxim, P. G., Diehn, M. n., Loo, B. W., Gensheimer, M. F.  
2020; 15 (1): 114
- **Early response evaluation using primary tumor and nodal imaging features to predict progression-free survival of locally advanced non-small cell lung cancer.** *Theranostics*  
Zhang, N., Liang, R., Gensheimer, M. F., Guo, M., Zhu, H., Yu, J., Diehn, M., Loo, B. W., Li, R., Wu, J.  
2020; 10 (25): 11707–18
- **Multicenter Clinical Cancer Research After COVID-19: A Perspective From NRG Oncology.** *International journal of radiation oncology, biology, physics*  
Gensheimer, M. F., Yom, S. S., Soto, N., Dignam, J. J., Le, Q., Machtay, M., Curran, W. J.  
2020; 108 (2): 483–85
- **Prolongation of definitive head and neck cancer radiotherapy: Survival impact and predisposing factors.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*  
Xiang, M. n., Gensheimer, M. F., Pollom, E. L., Holsinger, F. C., Colevas, A. D., Le, Q. T., Beadle, B. M.  
2020
- **Proton radiotherapy and treatment delay in head and neck squamous cell carcinoma.** *The Laryngoscope*  
Jin, M. C., Harris, J. P., Sabolch, A. N., Gensheimer, M., Le, Q., Beadle, B. M., Pollom, E. L.  
2019

- **Predicting Survival for Patients with Metastatic Disease.** *International journal of radiation oncology, biology, physics*  
Benson, K. R., Aggarwal, S., Carter, J. N., von Eyben, R., Pradhan, P., Prionas, N. D., Bui, J. L., Soltys, S. G., Hancock, S., Gensheimer, M. F., Koong, A. C., Chang, D. T.  
2019
- **Tumor Subregion Evolution-based Imaging Features to Assess Early Response and Predict Prognosis in Oropharyngeal Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Wu, J., Gensheimer, M., Zhang, N., Guo, M., Liang, R., Zhang, C., Fischbein, N., Pollom, E., Beadle, B., Le, Q., Li, R.  
2019
- **Radiographic Extranodal Extension in Human Papillomavirus-Associated Oropharyngeal Carcinoma: Can it Help Tailor Treatment?** *International journal of radiation oncology, biology, physics*  
Gensheimer, M. F., Le, Q.  
2019; 104 (5): 1028–29
- **Automated Survival Prediction in Metastatic Cancer Patients Using High-Dimensional Electronic Medical Record Data** *JNCI-JOURNAL OF THE NATIONAL CANCER INSTITUTE*  
Gensheimer, M. F., Henry, A., Wood, D. J., Hastie, T. J., Aggarwal, S., Dudley, S. A., Pradhan, P., Banerjee, I., Cho, E., Ramchandran, K., Pollom, E., Koong, A. C., Rubin, et al  
2019; 111 (6): 568–74
- **Adverse Radiation Effect and Disease Control in Patients Undergoing Stereotactic Radiosurgery and Immune Checkpoint Inhibitor Therapy for Brain Metastases** *WORLD NEUROSURGERY*  
Koenig, J. L., Shi, S., Sborov, K., Gensheimer, M. F., Le, G., Nagpal, S., Chang, S. D., Gibbs, I. C., Soltys, S. G., Pollom, E. L.  
2019; 126: E1399–E1411
- **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
- **Increases in Serial Pretreatment F-18-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
- **Adverse Radiation Effect and Disease Control in Patients Undergoing Stereotactic Radiosurgery and Immune Checkpoint Inhibitor Therapy for Brain Metastases.** *World neurosurgery*  
Koenig, J. L., Shi, S., Sborov, K., Gensheimer, M. F., Li, G., Nagpal, S., Chang, S. D., Gibbs, I. C., Soltys, S. G., Pollom, E. L.  
2019
- **A scalable discrete-time survival model for neural networks** *PEERJ*  
Gensheimer, M. F., Narasimhan, B.  
2019; 7
- **Impact of Accuracy of Survival Predictions on Quality of End-of-Life Care Among Patients With Metastatic Cancer Who Receive Radiation Therapy.** *Journal of oncology practice*  
Sborov, K., Giaretta, S., Koong, A., Aggarwal, S., Aslakson, R., Gensheimer, M. F., Chang, D. T., Pollom, E. L.  
2019: JOP1800516
- **Predictors of Respiratory Decline Following Stereotactic Ablative Radiotherapy to Multiple Lung Tumors.** *Clinical lung cancer*  
Moding, E. J., Liang, R. n., Lartey, F. M., Maxim, P. G., Sung, A. n., Diehn, M. n., Loo, B. W., Gensheimer, M. F.  
2019
- **A scalable discrete-time survival model for neural networks.** *PeerJ*  
Gensheimer, M. F., Narasimhan, B.  
2019; 7: e6257
- **A radiation oncology-specific automated trigger indicator tool for high-risk near-miss safety events.** *Practical radiation oncology*

- Hartvigson, P. E., Gensheimer, M. F., Spady, P. K., Evans, K. T., Ford, E. C.  
2019
- **In Regard to Valdes et al. *International journal of radiation oncology, biology, physics***  
Gensheimer, M. F., Trister, A. D.  
2018; 102 (5): 1593-1594
  - **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
  - **Adaptive radiotherapy for head and neck cancer: Are we ready to put it into routine clinical practice? *Oral oncology***  
Gensheimer, M. F., Le, Q.  
2018; 86: 19–24
  - **Adaptive radiotherapy for head and neck cancer: Are we ready to put it into routine clinical practice? *ORAL ONCOLOGY***  
Gensheimer, M. F., Le, Q.  
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