

University of Maryland Department of Radiation Oncology
Medical Resident Peer-Reviewed Journal Publications
FY 2025 (July 1, 2024 – June 30, 2025)

also included in the total pubs list

1. **Cao Y, Cherg HR**, Kunaprayoon D, Mishra MV, Ren L. Interpretable AI-assisted clinical decision making for treatment selection for brain metastases in radiation therapy. *Med Phys.* 2025 Apr 21. Online ahead of print.
2. **Cao Y**, Sutura P, Silva Mendes W, Yousefi B, Hrinivich T, Deek M, Phillips R, Song D, Kiess A, Cem Guler O, Torun N, Reyhan M, Sawant A, Marchionni L, Simone NL, Tran P, Onal C, Ren L. Machine learning predicts conventional imaging metastasis-free survival (MFS) for oligometastatic castration-sensitive prostate cancer (omCSPC) using prostate-specific membrane antigen (PSMA) PET radiomics. *Radiother Oncol.* 2024 Jul 31;199:110443.
3. Chen M, **Wang K**, Dohopolski M, Morgan H, Sher D, Wang J. TransAnaNet: Transformer-based anatomy change prediction network for head and neck cancer radiotherapy. *Med Phys.* 2025 May;52(5):3015-3029. Epub 2025 Jan 31.
4. Chen M, **Wang K**, Kapur P, Brugarolas J, Hannan R, Wang J. A multimodal ensemble approach for clear cell renal cell carcinoma treatment outcome prediction. *ArXiv [Preprint].* 2024 Dec 10:arXiv:2412.07136v1.
5. **Cherg HR**, Sun K, Bentzen SM, Mishra MV. An exploratory analysis of the conditional neurocognitive function failure risk in patients receiving whole brain radiotherapy for brain metastases on NRG Oncology CC001: Conditional neurocognitive toxicity risk. *Int J Radiat Oncol Biol Phys.* 2024 Sep 25:S0360-3016(24)03400-X. Online ahead of print.
6. Jiang C, Kim M, Han X, Chelius M, **Hoover T**, Kersun L, Reilly AF, Hubbeling H, Cummings E, Kurtz G, Hill-Kayser C, Plataras JP, LaRiviere MJ. Outcomes of proton therapy to infradiaphragmatic sites in pediatric patients with Hodgkin lymphoma. *Pediatr Blood Cancer.* 2024 Sep 12:e31290. Online ahead of print.
7. Kalavagunta C, **Savla B**, White J, Bulkley D, Dunlap A, Kwok R, Shaw K, MacFarlane M, Dudley S, Alicia D, Marter K, Leichter R, Chason C, Bentzen SM, Regine W, Vyfhuis M. Forward momentum: progressive change through diversity equity and inclusion initiatives in academic health care. *JNCI Cancer Spectr.* 2025 Mar 3;9(2):pkaf029.
8. **Krc R**, Baniel CC, Lichter K, Jatar S, Peters GW, Taswell CS, Ponce SB, MacDuffie E, LeCompte MC, Chen JJ, Wang K, LoTemplio A, Saripalli A, Kaya E, Barry P, Masters AH, Jagsi R, Kahn JM. The Society for Women in Radiation Oncology five years later: Connection, representation, and inclusivity matter. *Pract Radiat Oncol.* 2025 May 26:S1879-8500(25)00148-1. Online ahead of print.
9. Ling X, **Bazyar S**, Ferris M, Molitoris J, Allor E, Thomas H, Arons D, Schumaker L, **Krc R**, Mendes WS, Tran PT, Sawant A, Mehra R, Gaykalova DA, Ren L. Identification of CT based radiomic biomarkers for progression free survival in head and neck squamous cell carcinoma. *Sci Rep.* 2025 Jan 8;15(1):1279.
10. Ling X, **Bazyar S**, Ferris M, Molitoris J, Allor E, Thomas H, Arons D, Schumaker L, **Krc R**, Mendes WS, Tran PT, Sawant A, Mehra R, Gaykalova DA, Ren L. Author correction: Identification of CT based radiomic biomarkers for progression free survival in head and neck squamous cell carcinoma. *Sci Rep.* 2025 Feb 21;15(1):6358.
11. Mossahebi S, Byrne K, **Jiang K**, Gerry A, Deng W, Repetto C, Jackson IL, Sawant A, Poirier Y. A high-throughput focused collimator for OAR-sparing preclinical proton FLASH studies: commissioning and validation. *Phys Med Biol.* 2024 Jul 3;69(14).
12. Poirier Y, Byrne KE, Hamad G, Therriault-Proulx F, **Jiang K**, Deng W, Sawant A, Mossahebi S. What's in a Proton FLASH beam? Characterizing ultra-high dose rate protons using a commercial plastic scintillator. *Radiat Res.* 2025 Apr 1;203(4):201-213.

13. Rincon-Torroella J, Rakovec M, Kalluri AL, **Jiang K**, ... Bettegowda C. Impact of upfront adjuvant chemoradiation on survival in patients with molecularly defined oligodendroglioma: the benefits of PCV over TMZ. *J Neurooncol.* 2025 Jan;171(1):35-45. Epub 2024 Oct 9.
14. Ruditsky A, Fisher K, Tighe K, B'lanton J, Ma X, **Jiang K**, Byrne K, Carter-Cooper B, Casildo A, Passaniti A, Carrier F, Lapidus R, Richard K, Kallen ME, Ng VY. A Novel Approach to Potentially Improving Soft-Tissue Sarcoma Survival: Prophylactic Lung Radiotherapy Inhibits Growth of Lung Metastases and Prolongs Survival in a Murine Soft-Tissue Sarcoma Model. *Cureus.* 2024 Dec 24;16(12):e76334.
15. **Savla B**, Jateczak J, Molitoris JK, Witek ME, Marter K, Zakhary MJ, Xu J, Snow GE, Guardiani EA, Ferris MJ. Pencil beam scanning proton therapy as single vocal cord irradiation for early-stage glottic cancer. *Int J Part Ther.* 2024 Jul 17;13:100623.
16. Wahid KA, Dede C, El-Habashy DM, Kamel S, Rooney MK, **Khamis Y**, ... Fuller CD. Overview of the Head and Neck Tumor Segmentation for Magnetic Resonance Guided Applications (HNTS-MRG) 2024 Challenge. *ArXiv [Preprint].* 2024 Nov 28:arXiv:2411.18585v2. Update in: Head Neck Tumor Segm MR Guid Appl (2024). 2025;15273:1-35.
17. Wang JH, Deek MP, Mendes AA, Song Y, Shetty A, **Bazyar S**, Van der Eecken K, Chen E, Showalter TN, Royce TJ, Todorovic T, Huang HC, Houck SA, Yamashita R, Kiess AP, Song DY, Lotan T, DeWeese T, Marchionni L, Ren L, Sawant A, Simone N, Berlin A, Onal C, Esteva A, Feng FY, Tran PT, Sutera P, Ost P. Validation of an artificial intelligence-based prognostic biomarker in patients with oligometastatic castration-sensitive prostate cancer. *Radiother Oncol.* 2024 Nov 6;202:110618. Online ahead of print.
18. Wang JH, Sherry AD, **Bazyar S**, ...Dudley SA...Tran PT, Kiess AP. Outcomes of radium-223 and stereotactic ablative radiotherapy versus stereotactic ablative radiotherapy for oligometastatic prostate cancers: The RAVENS phase II randomized trial. *J Clin Oncol.* 2025 May 7:JCO2500131. Online ahead of print.