



UNIVERSITY of MARYLAND RADIATION ONCOLOGY

Peer-Reviewed Publications

Academic year 2024: July 1, 2023 – June 20, 2024

1. Ajithkumar T, Avanzo M, Yorke E, Tsang DS, Milano MT, Olch AJ, Merchant TE, Dieckmann K, Mahajan A, Fuji H, Paulino AC, Timmermann B, Marks LB, **Bentzen SM**, Jackson A, Constine LS. PENTEC organ-specific report: Brain and brain stem necrosis after reirradiation for recurrent childhood primary central nervous system tumors: A PENTEC comprehensive review. *Int J Radiat Oncol Biol Phys*. 2024 Feb 1:S0360-3016(24)00001-4. Online ahead of print.
2. **Alexander GS, Krc RF, Assif JW, Sun K, Molitoris JK, Tran P, Rana Z, Bentzen SM, Mishra MV**. Conditional risks of biochemical failure and prostate cancer-specific death in patients undergoing external beam radiotherapy: A secondary analysis of 2 randomized clinical trials. *JAMA Netw Open*. 2023 Sep 5;6(9):e2335069.
3. **Alexander GS, Krc RF, Assif JW, Sun K, Molitoris JK, Tran P, Rana Z, Mishra MV**. Conditional risk and predictive factors associated with late toxicity for prostate cancer patients treated with external beam radiotherapy alone on randomized trial RTOG 0126. *Int J Radiat Oncol Biol Phys*. 2024 May 31:S0360-3016(24)00686-2. Ahead of print.
4. **Alexander GS, Pollock AE**, Arons D, **Ferris MJ, Molitoris JK, Regine WF**, Witek ME. Post-treatment PET/CT for p16-positive oropharynx cancer treated with definitive proton therapy. *J Clin Imaging Sci*. 2023 Sep 29;13:31.
5. Atanackovic D, Iraguha T, Omili D, Avila SV, Fan X, Kocoglu M, Gebru E, Baker JM, Dishanthan N, Dietze KA, Olwafemi A, Hardy NM, Yared JA, **Hankey K**, Dahiya S, Rapoport AP, Luetkens T. A novel multicolor fluorescent spot assay for the functional assessment of chimeric antigen receptor (CAR) T-cell products. *Cytotherapy*. 2024 Apr; 26(4):318-324.
6. Batchelor TT, Won M, Chakravarti A, Haddjipanayis CG, Shi W, Ashby LS, Stieber VW, Robins HI, Gray HJ, Voloschin A, Fiveash JB, Robinson CG, Chamrathy U, **Kwok Y**, Cescon TP, Sharma AK, Chaudhary R, Polley MY, Mehta MP. NRG/RTOG 0837: Randomized, phase II, double-blind, placebo-controlled trial of chemoradiation with or without cediranib in newly diagnosed glioblastoma. *Neurooncol Adv*. 2023 Oct 11;5(1):vdad116.
7. **Bazyar S**, Mannuel H, **Tran PT**. Stereotactic ablative radiation therapy in metastatic prostate cancer. *Curr Opin Oncol*. 2024 Feb 15. Online ahead of print.
8. **Bazyar S**, Sutera P, Deek MP, Marshall CH, **Tran PT**. Cell-free DNA sequencing sheds additional insights on BRCA-altered metastatic castration-resistant prostate cancer. *EBioMedicine*. 2023 Aug 9;95:104756. Online ahead of print.
9. **Bentzen SM**, Vogelius IR, Hodgson D, Howell R, Jackson A, Hua CH, Olch AJ, Ronckers C, Kremer L, Milano M, Marks LB, Constine LS. Radiation dose-volume-response relationships for adverse events in childhood cancer survivors: Introduction to the scientific issues in PENTEC. *Int J Radiat Oncol Biol Phys*. 2024 Jun 1;119(2):338–353.
10. **Biswal NC, Zhang B, Nichols E, Witek ME, Regine WF, Yi B**. Cone-beam CT images as an indicator of QACT during adaptive proton therapy of extremity sarcomas. *Int J Part Ther*. 2024 Apr 26;12:100017.
11. **Brown MH**, Macrom SR, Patel MP, Popple RA, Travis RL, McDonald AM, O'Riley KO, Markert JM, Willey CD, Bredel M, Fiveash JB, Thomas EM. Understanding the effect of

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12. **Byrne KE, Poirier Y, Xu J**, Gerry A, Foley MJ, Jackson IL, **Sawant A, Jiang K**. Technical note: A small animal irradiation platform for investigating the dependence of the FLASH effect on electron beam parameters. *Med Phys*. 2024 Jan 11. Online ahead of print.
 13. **Cammin J**. A robust index for metal artifact quantification in computed tomography. *J Appl Clin Med Phys*. 2024 Jun 25:e14453. Online ahead of print.
 14. **Cao Y, Kunaprayoon D, Ren L**. Interpretable AI-assisted clinical decision making (CDM) for dose prescription in radiosurgery of brain metastases. *Radiother Oncol*. 2023 Aug 3:109842. Online ahead of print.
 15. Casey DL, Vogelius IR, Brodin NP, Roberts KB, Avanzo M, Moni J, Owens C, Ronckers CM, Constine LS, **Bentzen SM**, Olch A. Risk of subsequent neoplasms in childhood cancer survivors after radiation therapy: A comprehensive PENTEC review. *Int J Radiat Oncol Biol Phys*. 2023 Sep 29:S0360-3016(23)07685-X. Online ahead of print.
 16. Chen JJ, Brown AM, Garda AE, Kim E, **McAvoy SA**, Perni S, Rooney MK, Shiue K, Tanning KL, Warren LE, Golden DW, Croke JM; Radiation Oncology Education Collaborative Study Group (ROECSG) Patient Education Working Group. Patient education practices and preferences of radiation oncologists and interprofessional radiation therapy care teams: A mixed methods study exploring strategies for effective patient education delivery. *Int J Radiat Oncol Biol Phys*. 2024 Mar 2:S0360-3016(24)00332-8.
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 20. Constine LS, Marks LB, Milano MT, Ronckers CM, Jackson A, Hudson MM, Marcus KJ, Hodgson DC, Hua CH, Howell RM, Marples B, Yorke E, Olch A, **Bentzen SM**. A user's guide and summary of Pediatric Normal Tissue Effects in the Clinic (PENTEC): Radiation dose-volume response for adverse effects after childhood cancer therapy and future directions. *Int J Radiat Oncol Biol Phys*. 2023 Nov 23:S0360-3016(23)07918-X. Online ahead of print.
 21. Constine LS, Olch AJ, Marks LB, Jackson A, **Bentzen SM**. PENTEC dedication and acknowledgments. *Int J Radiat Oncol Biol Phys*. 2024 Jun 1;119(2):315.
 22. Deek MP, Sutera P, Jing Y, Gao R, Rothman E, Day H, Chang D, Dirix P, Armstrong AJ, Campbell B, Campos FL, Berenguer M, Ramotar M, Conde-Moreno A, Berlin A, Bosetti DG, Corcoran N, Koontz B, Mercier C, Siva S, Pryor D, Ost P, Huynh MA, Kroeze S, Stish B, Kiess A, Trock B, **Tran PT**, Gillessen S, Sweeney C. Multi-institutional analysis of metastasis-directed therapy with or without androgen deprivation therapy in oligometastatic castration-sensitive prostate cancer. *Eur Urol Oncol*. 2024 Apr 2:S2588-9311(24)00086-5. Online ahead of print.
 23. Deek MP, **Tran PT**, Jabbour SK. Metastasis-directed therapy: a moving target advancing progress forward. *J Clin Oncol*. 2023 Sep 25:JCO2301274. Online ahead of print.
 24. Elnaggar M, Chaisuparat R, Ghita I, **Bentzen SM**, Dyalram D, Ord RA, Lubek JE, Younis RH. Immuno-oncologic signature of malignant transformation in oral squamous cell carcinoma. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2023 Nov;136(5):612-622
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 31. Kishan AU, Siva S, Hofman MS, Nagarajah J, Kiess AP, **Tran P**, Calais J. The potential contribution of radiopharmaceutical therapies in managing oligometastatic disease. *J Nucl Med*. 2024 Feb 15. Online ahead of print.
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