

Department of Radiation Oncology

Monthly Research Update: September 2022

SEPTEMBER AT A GLANCE

Clinical trials	
Total enrolled	39
GCC, other	18
NRG, NCI, co-ops	1
PCG Registry	20
Grants and contracts	
New awards	2
Submitted	2
Articles published	8

Information for this monthly update should be provided no later than the second Wednesday of each month to Miek Segers at msegers@som.umaryland.edu. The update will be published on the second Friday of each month.

Have questions about identifying a funding source? Finding research partners across the UMB/UM campuses or at another university? Defining future research strategies? Or organizing your thoughts on (virtual) paper? Contact Nancy Knight, PhD, Director of Academic and Professional Development for the department, at nknight@umm.ed

White House Accelerates Data Sharing Timeline

On August 25, the White House Office of Science and Technology Policy (OSTP) issued a [memorandum](#) to the heads of all government executive departments on “Ensuring Free, Immediate, and Equitable Access to Federally Funded Research.” The National Institutes of Health (NIH) on the same day announced [plans](#) to speed access to federally funded research results. These plans build on the new [NIH Policy for Data Management and Sharing](#), which will take effect on January 25, 2023.

The White House memo recommends that all federal agencies, to the extent consistent with applicable law: (1) Update their public access policies as soon as possible and no later than December 31, 2025, **to make publications and their supporting data resulting from federally funded research publicly accessible without an embargo on their free and public release**; (2) Establish transparent procedures that ensure scientific and research integrity is maintained in public access policies; and (3) Coordinate with OSTP to ensure equitable delivery of federally funded research results and data.

The move toward immediate availability of data on published studies is likely to have significant effects on funding compliance requirements, data documentation and reporting standards, and peer-reviewed journal formats and associated costs. In August and September, NIH posted proceedings from a [series of webinars](#) on its new data management and sharing policy. Regular updates are anticipated.

Clinical Trial Enrollment

- 20 patients were enrolled at MPTC on the **PCG Registry**.
- 2 patients were enrolled at MPTC on the **Deep Thermal Therapy HUD**.
- 3 patients were enrolled at MPTC on **GCC 20110**: A single-arm, single-stage phase II trial of Selective Avoidance of nodal VolumEs at minimal Risk (SAVER) in the contralateral neck of patients with p16-positive oropharynx cancer.
- 9 patients were enrolled at MPTC on **GCC 19146**: Comparison and verification of radiation planning for pencil beam scanning proton therapy using single energy and dual energy computed tomography simulation methods.
- 2 patients were enrolled at BWMC on **GCC 1876**: Tumor bed boost using a breast specific radiosurgery device, the GammaPod: Registry study and evaluation of quality of life with development of sizing nomogram.
- 1 patient was enrolled at MPTC on **GCC 19140**: Pilot study of laser interstitial thermal therapy followed by hypofractionated radiation therapy for recurrent high-grade gliomas.
- 1 patient was enrolled at UMMC on **GCC 20138**: Laser interstitial thermal therapy followed by hypofractionated radiation therapy for treatment of newly diagnosed high-grade gliomas.
- 1 patient was enrolled at UCH on **NRG CC009**: Phase III trial of stereotactic radiosurgery (SRS) versus hippocampal-avoidant whole brain radiotherapy (HA-WBRT) for 10 or fewer brain metastases from small cell lung cancer.

Grants and Contracts

Funded:

- **Erika Davies, PhD, PI**, from ASPR-BARDA, for “Nonclinical Development Radiological & Nuclear Network (base period),” contract 75A50122D00016 (Sep 2022–Sep 2027; \$75,000).
- **Erika Davies, PhD, PI**, from 9Meters Biopharma, for “Proof-of-concept study to assess the efficacy of GLP-2 to mitigate the gastrointestinal subsyndrome of acute radiation syndrome leading to a statistically significant improvement in 15-day survival following total body irradiation with 2.5% bone marrow sparing in a C57BL/6J mouse model” (Sep 2022–Sep 2023; \$145,127).

Submitted:

- **Dario Rodrigues, PhD, subaward PI**, with MAE Group LLC/Thomas Jefferson University, for NIH STTR phase II, “Tumor bed implant for simultaneous heat and radiation of resectable brain tumors” (Mar 2023–Feb 2025; \$111,243).
- **Lei Ren, PhD, PI**, UMMC Innovation Challenge, for “Interpretable AI for clinical decision-making assistance” (Jan. 2023–Jun 2024; \$125,000).

Articles Published

Entered into PubMed September 7–October 12. Titles link to PubMed abstracts, with full-text links.

1. Amin N, Thompson J, Goloubeva O, **Witek M**, Taylor RJ, Wolf JS, Moyer K, Mehra R, Hatten KM. [Human papillomavirus impact on temporal treatment trends in oropharyngeal carcinoma: 2010-2016](#). *ORL J Otorhinolaryngol Relat Spec*. 2022 Sep 6:1–9. Online ahead of print.
2. Babier A, Mahmood R, Zhang B....**Soomro MH**, et al. [OpenKBP-Opt: an international and reproducible evaluation of 76 knowledge-based planning pipelines](#). *Phys Med Biol*. 2022 Sep 12;67(18).
3. Hooshangnejad H, **Han D**, Feng Z, Dong L, Sun E, Du K, Ding K. [Systematic study of the iodinated rectal hydrogel spacer material discrepancy on accuracy of proton dosimetry](#). *J Appl Clin Med Phys*. 2022 Sep 15:e13774. Online ahead of print.
4. Jiang Z, Sun L, Yao W, Wu QJ, Xiang L, **Ren L**. [3D in vivo dose verification in prostate proton therapy with deep learning-based proton-acoustic imaging](#). *Phys Med Biol*. 2022 Oct 7. Online ahead of print.
5. Matsui JK, Perlow HK, Baiyee C, Ritter AR, **Mishra MV**, Bovi JA, Gondi V, Brown PD, Loughan AR, Leeper HE, Dawson E, Palmer JD. [Quality of life and cognitive function evaluations and interventions for patients with brain metastases in the radiation oncology clinic](#). *Cancers (Basel)*. 2022 Sep 1;14(17):4301.
6. Patel SA, Ma TM, Wong JK, Stish BJ, Dess RT, Pilar A, Reddy C, Wedde TB, Lilleby WA, Fiano R, Merrick GS, Stock RG, Demanes DJ, Moran BJ, **Tran PT**, Krauss DJ, Abu-Isa EI, Pisansky TM, Choo CR, Song DY, Greco S, Deville C, DeWeese TL, Tilki D, Ciezki JP, Karnes RJ, Nickols NG, Rettig MB, Feng FY, Berlin A, Tward JD, Davis BJ, Reiter RE, Boutros PC, Romero T, Horwitz EM, Tendulkar RD, Steinberg ML, Spratt DE, Xiang M, Kishan AU. [External beam radiotherapy with or without brachytherapy boost in men with very high-risk prostate cancer: A large multicenter international consortium analysis](#). *Int J Radiat Oncol Biol Phys*. 2022 Sep 27:S0360-3016(22)03399-5.
7. Puckett LL, Kodali D, Solanki A, Park JH, Katsoulakis E, Kudner R, Kapoor R, Kujundzic K, Chapman CH, Hagan M, Kelly M, Palta J, Bazan JG, Dragun A, Fisher C, Haffty B, **Nichols E**, Shah C, Salehpour M, Dawes S, Wilson E, Buchholz TA. [Consensus quality measures and dose constraints for breast cancer from the Veterans Affairs Radiation Oncology Quality Surveillance Program and American Society for Radiation Oncology \(ASTRO\) Expert Panel](#). *Pract Radiat Oncol*. 2022 Sep 14:S1879-8500(22)00271-5. Online ahead of print.
8. **Yi B, Sawant A, Chen S, Lee SW, Zhang B**. [Readiness for radiation treatment continuity: Survey on contingency plans against cyberattacks](#). *Adv Radiat Oncol*. 2022 Sep 16;7(5):100990.

Important Dates for Upcoming Funding Submissions

Below is an updated calendar with firm due dates for upcoming major NIH deadlines (individual RFA/PA dates may differ). Contact the Department Office of Research Administration (DORA) (msegers@som.umaryland.edu) ASAP if you plan to submit any funding proposal, regardless of funder. Failure to meet these deadlines may result in delaying your submission until the next cycle (if available).

NIH deadline		DORA budget, prelim materials	Dean/SOM prelim materials	FINAL Dean/SOM/SPA
R01 resub	11/05/22	10/24/22	10/27/22	10/31/22
R21 resub	11/16/22	11/02/22	11/07/22	11/09/22
R01 new sub.	02/06/23	01/23/23	01/26/23	01/30/23
R21 new sub.	02/16/23	02/03/23	02/07/23	02/09/23