

Department of Radiation Oncology

Monthly Research Update: July 2026

JULY AT A GLANCE TOTALS

Clinical trials

Total enrolled	20
GCC, other	4
NRG, co-ops	5
PCG, other registries	11

Grants and contracts

New awards	2
Submitted	0

Articles published 10

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.edu.

UM Radiation Oncology at AAPM 2026

Department of Radiation Oncology members presented research in a broad range of educational and other forums at the 68th annual meeting of the American Association of Physicists in Medicine (AAPM), July 19–22, in Vancouver, BC. With more than 40 presentations and appearances on panels and as educators, the department was well represented across its many areas of research and practice. The theme of the meeting was “Medical physics community. Innovation. Inspiration. Impact.” The meeting is the world's largest program of scientific, educational, and professional research in the medical physics field, drawing thousands of attendees. Radiation Oncology faculty and trainees had 12 oral and “snap oral” presentations, as well as 30 posters in the convention center and/or available for online viewing. A complete list of presentations and authors is available from kbayne@umm.edu.

Important Dates for Upcoming Funding Submissions

Updated calendar for **near-term NIH submission deadlines**, with firm due dates for major NIH deadlines (RFA/PA dates may differ). Contact the Department Office of Research Administration (msegers@som.umaryland.edu) ASAP if you plan to submit a proposal, regardless of funder.

NIH deadline ⁴	DORA deadline ¹	ORA deadline ²	SPA deadline ³
R01 10/05 (new)	09/21/2026	09/24/2026	09/28/2026
*R21 10/16 (new)	10/02/2026	10/07/2026	10/09/2026
R01 11/05 (resub)	10/23/2026	10/25/2026	10/29/2026
*R21 11/16 (resub)	11/03/2026	11/07/2026	11/09/2026

¹DORA deadline: All forms to be included in proposal, known or in draft, budget final, subcontractor budgets and information final in final form, 9 business day prior to NIH deadline. ²ORA deadline: Personnel, effort, budget materials, performance site, and compliance forms routed in final form, 7 business days prior to NIH deadline. ³SPA deadline: All proposal materials routed in FINAL form by 5 pm, 5 business days prior to NIH deadline. No more corrections allowed, unless indicated after review by SPA. ⁴*R21 deadline is also for R03, R33, R21/R33, R34, R36, UH2, UH3, and UH2/UH3 submissions.

Clinical Trial Enrollment

- 10 patients at MPTC on the **Proton Collaborative Group Registry**
- 1 patient at MPTC on the **Deep Thermal Therapy HUD**
- 2 patients at UMMC on **GCC 2422**: Phase I feasibility and pilot RCT of serious illness conversation guide in patient and intimate partner dyads living with advanced lung cancer
- 2 patients at MPTC and 1 at UCH on **GCC 2563/PCG BRE009**: Phase III randomized trial of conventionally fractionated vs. hypofractionated comprehensive nodal irradiation for breast cancer using pencil beam scanning protons therapy (COMPRO)
- 1 patient at MPTC on **GCC 2431**: A pilot study of systemic immune-based therapy combined with hyperthermia and spatially fractionated radiotherapy in advanced biliary tract cancer and hepatocellular carcinoma
- 1 patient at MPTC and 1 at St. Joseph on **NRG CC015**: Harnessing E-mindfulness approaches for living after breast cancer—HEAL-ABC
- 1 patient at UCH on **GCC 2497**: A phase 1 single-arm single-institution study evaluating neoadjuvant chemoimmunotherapy with immuno-sensitizing radiation for borderline resectable non-small cell lung cancer (NeoRADjuvant Trial)

Grants and Contracts

Funded:

- **Dario Rodrigues, PhD**, lead MPI, from the National Cancer Institute for “A non-invasive MR-compatible hyperthermia system for brain tumor treatment” (R01) for \$2,501,878.
- **Yannick Poirier, PhD**, lead PI, **Kevin Byrne, PhD**, co-PI, from the National Institute of Allergy and Infectious Diseases for “Radiation and Nuclear Countermeasures Program (RNCP) portfolio-wide dosimetry verification services” for \$2,799,498.

Articles Published

Entered into PubMed July 9 through August 12. Titles link to PubMed abstracts.

1. Abrams RA, Winter KA, Goodman KA, Regine WF, Safran HP, Guha CS, Kachnic LA, Gillin MT, Philip PA, Lowy AM, O'Reilly E, Van Laethem JL, Seaward SA, Wu AJ, Wu JJ, Aljumaily RM, DiPetrillo TA, Geva R, Anne PR, Liles DK, Ling DC, Conlin A, Moughan J, Crane CH. [Adjuvant chemotherapy ± chemoradiotherapy for adenocarcinoma of the pancreatic head: Results of the radiotherapy random assignment of NRG Oncology/RTOG 0848](#). *J Clin Oncol*. 2026 Jun 9;JCO2502520. Online ahead of print.
2. Alaei P, Mihalcik S, Baliga S, Kwok Y, Casey D, Ehler E, Burton C, Breneman JC, Haas-Kogan DA, Wolden SL, Paulino AC, Laack NN, Esiashvili N, Milgrom S, Hill-Kayser C, Fitzgerald TJ, Kalapurakal JA, Hua CH. [Guidelines for pediatric radiotherapy simulation: A Report from the Children's Oncology Group Radiation Oncology Discipline](#). *Pediatr Blood Cancer*. 2026 Jul 28:e70460. Online ahead of print.
3. Bzhilyanskaya V, Tong JY, Vetter-Habighorst T, Moyer K, Wolf J, Taylor R, Molitoris JK, Ferris MJ, Mehra R, Hatten KM. [Nurse navigation on time to postoperative radiation therapy after transoral robotic surgery for oropharyngeal carcinoma](#). *Otolaryngol Head Neck Surg*. 2026 Jul 30. Online ahead of print.
4. Kamran SC, Borges M, Michalski J, Lee WR, Sandler HM, Crook J, Pollack A, Hurwitz MD, Valicenti RK, Bruner DW, Lukka H, Jones CU, Roach M 3rd, Lawton C, Rosenthal SA, Pisansky TM, Spratt D, Vapiwala N, Efstathiou J, Miyamoto D, Mouw K, Vyfhuis M, Le QT, Willers H, Van Allen E, Huang F, Bahary JP, Helou J, Pugh SL, Wenzel J, Tran P. [Participant heterogeneity in the prostate cancer biobank of the NRG: An obstacle to broadening the reach of precision oncology](#). *JCO Precis Oncol*. 2026 Jul;10(7):e2600158.
5. Modiri A, Chen H, Dickfeld TL, Bradley JD, Sawant A. [A systems approach to radiation-induced cardiopulmonary toxicity-A narrative literature review focusing on the interdependence of the heart and the lung in thoracic radiotherapy](#). *Cancers (Basel)*. 2026 Jun 28;18(13):2099.
6. Olivieri PP, Markan A, Ashbaker D, Heavner JJ, Emel J, Bedra ME, Kisielewski A, Nyarko S, Dobrovic M, Goldberg T, Talley D, Downs P, Prieto S, Henry G, Roesch T, Larbalestrier A, Sachdeva A, Ferrier C, D'Souza WD, Marshall JD. [Improving follow-up of incidental pulmonary nodules in the emergency department using an artificial intelligence-supported workflow](#). *Respir Med*. 2026 Jul 25;261:109045. Online ahead of print.
7. Tominaga Y, Rahimi R, Wakisaka Y, Nakata M, Miyasaka Y, Takagi A, Tanaka A, Ichihara M, Sasaki M, Kato T, Haga A, Nishio T. [evaluations of penumbra reduction using multi-leaf collimator and 3D bolus in scanned proton therapy](#). *Int J Part Ther*. 2026 Jul 10;21:101950.
8. Wright JL, Ko K, Kenworthy W, Bosch W, Straube W, Zou W, Remmes N, Pankuch M, Berlin E, Berrington de Gonzalez A, Boggs DH, Braunstein LZ, Cahlon O, Chawla A, Croog V, Fagundes M, Fang LC, Feriozzi A, Freedman GM, Gillespie EF, Hoffman K, Jimenez RB, Kim J, Lu HL, MacDonald S, Meier T, Mishra M, Mutter R, Ohri N, Pugh SL, Rosen L, Taghian A, Taunk N, Thukral AD, Urbanic J, Bekelman JE, Lin A, Ky B; RadComp Consortium. [Associations between cardiac radiation dose-volume metrics and health-related quality of life for patients with breast cancer on the RadComp Trial](#). *Int J Radiat Oncol Biol Phys*. 2026 Jul 21:S0360-3016(26)03915-5. Online ahead of print.
9. Xu H, Zhang H, Yao W, Zhou J, Poirier Y, Xu J, Becker S, Luo G, Mishra M, Chen S, Zhang B. [Evaluation of dosimetric impact and plan robustness of MLC motion and setup errors in SRS for multiple brain metastases](#). *J Appl Clin Med Phys*. 2026 Aug;27(8):e70697.
10. Zhang J, Xu Y, Sun L, Lang Y, Xiang L, Ren L. [A single-view-based electroacoustic tomography imaging using deep learning for electroporation monitoring](#). *Med Phys*. 2026;53(8):e70623.