

Communications and Advocacy Subcommittee Vision:

Goals:

- 1. Increase the connectivity of residents across the country*
- 2. Increase resident representation across social media platforms*
- 3. Highlight updates and additions to ARRO resources*
- 4. Enhance accessibility to radiation oncology resources and other residents*

While the field of radiation oncology is small, it is incredibly tight-knit and well-connected. As residents, we often witness our attendings reaching out to other physicians for advice and collaboration. Many of these connections come from being a part of even smaller communities of radiation oncology, such as disease site subspecialties. However, some of these connections also come from reaching out to prior co-residents. We are well aware that residents often stay in touch with their past co-residents for a variety of reasons, particularly early after graduation for board studying, but co-residents can also serve as an excellent sounding board for challenging cases long into the future. For residents in smaller programs, this network of co-residents may be less broad, and thus, one of my goals for the communication and advocacy subcommittee would be to create a resource hub for residents from any and all programs to come together to meet and establish long lasting connections with each other. This could be done through a variety of formats including virtual meet and greets or online forums.

In addition to managing the existing ARRO communication platforms including the website and social media accounts, I plan to focus on highlighting other residents from different programs on the account to increase and strengthen connections as mentioned above. I also hope to use these platforms to keep our community up to date on news, happenings, key updates to literature, as well as featuring new resources from the education, global health, and equity and inclusion subcommittees. I also hope to establish a feedback mechanism for residents to offer ideas, suggestions, and criticisms for current ARRO events, infrastructure, resources, etc so that resident voices are heard and resident needs are met.

Emily S. Hollis

Education:

2023-Present: Residency, Radiation Oncology, University of North Carolina, Chapel Hill, NC
2022-2023: Internship, Internal Medicine, University of North Carolina, Chapel Hill, NC
2018-2022: MD, University of North Carolina School of Medicine, Chapel Hill, NC
2014-2018: BS, Biology, Highest Distinction, Minors: Chemistry, Medical Anthropology - University of North Carolina at Chapel Hill, NC

Honors and Awards:

Kevin R. Stone, MD '81 Travel Fellow	Aug 2021
Loyalty Fund Scholar – UNC School of Medicine	June 2019, 2020, 2021
Phi Beta Kappa Honor Society	May 2018
Honors Carolina Laureate	May 2018
1 st Place Paper – St. Jude POE Program	Aug 2017
Eisai Rural Community Health Award – THInC, Duke University	Oct 2017
UNC Science in Grenoble – Lee Gravely Family Scholarship	Jun 2016

Professional Experience in Education:

UNC Academy of Educators (AOE) May 2023 - Present

- Educational leadership activities and yearly participation requirements for members.

Teaching as a Resident: Highlighting the Evidence and Enthusiasm of Learning (TARHEEL)

- Program to augment the teaching and mentorship skills of residents. Sep – Dec 2022

UNC Biology Department – Undergraduate Laboratory Teaching Assistant Jan 2022-May 2022

Office of Academic Excellence UNC School of Medicine – Peer Tutor Aug 2020 – May 2022

Near-Peer Learning in Medical Education: Student-Led Virtual COVID-19 Course

UNC School of Medicine (SOM), Chapel Hill Mar – June 2020

Trauma Informed Care Elective Course March – May 2019

- Designed and established an elective course for UNC SOM students.

Medical Education Scholarly Concentration Program – UNC SOM Oct 2018 – May 2022

- Completed yearly medical education events, teaching and leadership roles, medical education elective, research project and a portfolio.

St. Jude Children's Research Hospital Pediatric Oncology Education Program, Memphis, TN

- Summer research and educational opportunity funded by the NIH/NCI. Jun – Aug 2017

Research Experiences:

Ongoing Clinical Research:

- *Optimizing PTV Generation and Comparison of OAR Dosimetry with Different Rectal Spacers in Patients Treated with HDR-like Prostate SBRT* Dr. Michael Repka, MD, Dr. Michael Lawrence, PhD, Dr. Eric Schreiber, PhD, Dr. Shivani Sud, MD, and Dr. N. Ari Wijetunga, MD, PhD, Department of Radiation Oncology.

- *Characterizing Patterns of Failure on Trastuzumab-Deruxtecan (T-DXd) among Patients with HER2 Low Metastatic Breast Cancer* Dr. Shivani Sud, Dr. Gaorav Gupta, Dr. Dana Casey, Dr. Yara Abdou, Dr. Claire Dees, Dr. Ellen Jones, Dr. Jean Wright, Department of Radiation Oncology, UNC Chapel Hill. Department of Medical Oncology, UNC Chapel Hill.
- *Planning Feasibility of Strategic Dose Inhomogeneity to Maximize Dose to the Dominant Intraprostatic Lesion in Prostate SBRT* Dr. Michael Repka, MD, Dr. Michael Lawrence, PhD, Dr. Eric Schreiber, PhD, Dr. Shivani Sud, MD, and Dr. N. Ari Wijetunga, MD, PhD, Department of Radiation Oncology, UNC Chapel Hill.
- *Vaginal Melanoma Review for Rare Diseases and Outcomes Database (RDOD)* Dr. Shivani Sud, MD and Dr. Ashley Weiner, MD, PhD, Department of Radiation Oncology. UNC Chapel Hill.
- *Vascular Toxicity and Dose Tolerance in Patients Treated with Intraoperative Radiotherapy* Dr. Theodore Yanagihara, MD, PhD, Dr. Joel Tepper, MD, Dr. Jacob Hall, MD, Dr. Joshua Kovoov, MD, Department of Radiation Oncology and Dr. Hong Jin Kim, MD, and Dr. Phillip Spanheimer Department of Surgical Oncology. UNC Chapel Hill.
- *Partial and Complete Volumes in Radiotherapy Treatment for Retroperitoneal Sarcoma* Dr. Theodore Yanagihara, MD, PhD, Dr. Joel Tepper, MD, Dr. Zachary Oaks, MD, PhD, David Fried, PhD, Department of Radiation Oncology and Dr. Hong Jin Kim, MD, and Dr. Phillip Spanheimer Department of Surgical Oncology. UNC Chapel Hill.

Basic Science Research Experiences:

- **2019 – 2020:** *Role of CYLD in HPV Life Cycle and HPV-Induced Head and Neck Carcinogenesis*,
 - Dr. Wendell Yarbrough, MD, MMHC, FACS and Dr. Natalia Isaeva, PhD Department of Otolaryngology, **UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC**
- **2017** *Therapeutic Targeting of NUP98-Fusions in Acute Erythroid Leukemia*
 - Dr. Charles Mullighan, MBBS (Hons), MSc, MD, Dr. Ilaria Iacobucci, PhD Department of Pathology, **St. Jude Children’s Research Hospital, Memphis, TN**
- **2016 – 2018:** *HIF2 and PBRM1 in Clear Cell Renal Cell Carcinoma*
 - Dr. Ian Davis, MD, PhD and Dr. Mariesa Slaughter, PhD Department of Genetics, **UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC**

Publications:

Hollis E, Nganga DW, Yanagihara TK. A Review of Stereotactic Body Radiotherapy in the Management of Gastrointestinal Malignancies. *Cancer J.* 2024;30(6):407-420. doi:10.1097/PPO.0000000000000752

Hollis, E., Paterno, A., Beck Dallaghan, G., Tolleson-Rinehart, S., & Thorp, J. Implementation of a Trauma-Informed Care Elective in Medical Education. *Carolina Journal of Interdisciplinary Medicine*, 2(1). 2022.

Spratte BN, Hollis AN, **Hollis ES**, Cole YC, Bennett WC, Alexander SM, Parton T, Beck Dallaghan GL. Near-Peer Learning in Medical Education: an evaluation of student-led, online COVID-19 Course. *Education in the Health Professions*. July 2021.

Hollis ES, Canfarotta MW, Dillon MT, Rooth MA, Bucker AL, Dillon SA, Young A, Quinones K, Pillsbury HC, Dedmon MM, O'Connell BP, Brown KD. Initial Hearing Preservation Is Correlated With Cochlear Duct Length in Fully-inserted Long Flexible Lateral Wall Arrays. *Otology Neurotology*. 2021 Apr 14.

Iacobucci I, Qu C, Varotto E, Janke LJ, Yang X, Seth A, Shelat A, Friske JD, Fukano R, Yu J, Freeman BB, Kennedy JA, Sperling AS, Zheng R, Wang Y, Jogiraju H, Dickerson KM, Payne-Turner D, Morris SM, **Hollis ES**, Ghosn N, Haggard GE, Lindsley RC, Ebert BL, Mullighan CG. Modeling and targeting of erythroleukemia by hematopoietic genome editing. *Blood*. 2021 Mar 25.

Slaughter MJ, Shanle EK, McFadden AW, **Hollis ES**, Suttle LE, Strahl BD, Davis IJ. PBRM1 bromodomains variably influence nucleosome interactions and cellular function. *Journal of Biological Chemistry*. 2018 Aug 31.

Presentations:

“Partial Volume Pre-Operative Irradiation of Retroperitoneal Sarcoma.” E.S. Hollis, MD, Z.A. Oaks MD, PhD, D.V. Fried PhD, DABR, P.M. Spanheimer, MD, H.J. Kim, MD, J.E. Tepper, MD, T. Yanagihara, MD, PhD. American Society for Radiation Oncology (ASTRO) Annual Meeting 2022. Poster presented by Dr. Zachary Oaks, MD, PhD on Oct 25 2022.

“Timing of history-indicated cervical cerclage placement and pregnancy outcomes.” Emily Hollis, BS, Sara King, BS, Brianna N. Frame, MD, Abbey P. Donahue, MD, Ashley N. Battarbee, BS, MD, MPH, Tracy A. Manuck, MD, MSCI. Society for Maternal Fetal Medicine 42nd Annual Pregnancy Meeting. Virtual poster. Orlando, FL. Jan 31- Feb 5 2022.

“Transvaginal cervical length (TVCL) monitoring post-cerclage is associated with lower rates of preterm birth” Brianna Frame, MD, Sara King, **Emily Hollis**, Abbey Donahue, MD, Ashley Battarbee, BS, MD, MPH, Tracy Manuck, MD, MSCI. Society for Maternal Fetal Medicine 42nd Annual Pregnancy Meeting. Virtual oral presentation by Brianna Frame, MD. Orlando, FL. 31 Jan 2022.

"Smoking Cessation Interventions During Chemoradiotherapy for Locally Advanced Cervical Cancer: A Missed Opportunity?" **Emily S. Hollis**, Ellen Ruebush MSW, Erik Davies MSW, Sarah Paraghamian MD, Ashley A. Weiner, MD, PhD. American Society for Radiation Oncology (ASTRO) 63rd Annual Meeting. Poster presentation. Oct 24-27 2021.

“The Trauma Informed Care Course: Evaluation and Lessons Learned” **Emily S Hollis**, Anthony V Paterno, MS, Gary L Beck Dallaghan, PhD, Sue Tolleson Rinehart, PhD, John M Thorp, MD. UNC School of Medicine Student Government Grand Rounds. Oral presentation. May 2021.

“Near-peer learning in medical education: an evaluation of a student-led, online COVID-19 course.” Alison N. Hollis, Brooke N. Spratte, **Emily S. Hollis**, William C. Bennett, Seth M. Alexander, Yasemin C. Cole, Thomas M. Egan, MD, MSc, Kurt O. Gilliland, PhD. 2021 GEA Regional Spring Conference Oral presentation by Alison Hollis. 20 April 2021.

"Smoking Cessation Interventions During Chemoradiotherapy for Locally Advanced Cervical Cancer: A Missed Opportunity?" **Emily S. Hollis**, Ellen Ruebush MSW, Erik Davies MSW, Sarah Paraghamian MD, Ashley A. Weiner, MD, PhD. John B. Graham Medical Student Research Day. Poster presentation. Chapel Hill, NC. 16 April 2021.

“Role of CYLD in HPV Life Cycle and HPV-Induced Head and Neck Carcinogenesis.” **Emily Hollis**, Andrew Prince, MD, Gary Bellinger, Wendell Yarbrough, MD, MMHC, Natalia Issaeva, PhD. American Head & Neck Society 10th International Conference on Head and Neck Cancer. Chicago, IL. 18 Jul 2020. Poster accepted but meeting cancelled due to Covid-19.

“Hearing Preservation with Long Flexible Lateral Wall Arrays.” **Emily S. Hollis**, Michael W. Canfarotta, Margaret T. Dillon, Brendan P. O’Connell, Lisa Park, Meredith A. Rooth, Matthew M. Dedmon, Kevin D. Brown. American Cochlear Implant Alliance CI2020 International Conference. Orlando, FL. 19 Mar 2020. Poster accepted but meeting cancelled due to Covid-19.

“Role of CYLD in HPV Life Cycle and HPV-Induced Head and Neck Carcinogenesis.” **Emily Hollis**, Andrew Prince, MD, Gary Bellinger, Wendell Yarbrough, MD, MMHC, Natalia Issaeva, PhD. John B. Graham Medical Student Research Day. Poster presentation. Chapel Hill, NC. 14 Oct 2019.

“Role of CYLD in HPV Life Cycle and HPV-Induced Head and Neck Carcinogenesis.” **Emily Hollis**, Andrew Prince, MD, Gary Bellinger, Wendell Yarbrough, MD, MMHC, Natalia Issaeva, PhD. Lineberger Comprehensive Cancer Center 44th Annual Postdoc Faculty Day. Poster presentation. Chapel Hill, NC. 17 Sept 2019.

“Downregulation of Matrix Metalloproteinases Precludes Tumor Spread in Head and Neck Cancer.” Andrew Prince, MD, **Emily Hollis**, Gary Bellinger, Wendell Yarbrough, MD, MMHC, Natalia Issaeva, PhD. Lineberger Comprehensive Cancer Center 44th Annual Postdoc Faculty Day. Poster presentation, presented by Andrew Prince, MD. Chapel Hill, NC. 17 Sept 2019.

“Role of CYLD in HPV Life Cycle and HPV-Induced Head and Neck Carcinogenesis.” **Emily Hollis**, Andrew Prince, MD, Gary Bellinger, Wendell Yarbrough, MD, MMHC, Natalia Issaeva, PhD. UNC School of Medicine Department of Pathology and Laboratory Medicine Annual Research Symposium. Poster presentation. Chapel Hill, NC. 12 Sept 2019.

“Downregulation of Matrix Metalloproteinases Precludes Tumor Spread in Head and Neck Cancer.” Andrew Prince, MD, Gary Bellinger, Wendell Yarbrough, MD, MMHC, Natalia Issaeva, PhD. UNC School of Medicine Department of Pathology and Laboratory Medicine Annual Research Symposium. Poster presentation by Andrew Prince, MD. Chapel Hill, NC. 12 Sept 2019.

“Modeling of NUP98-Fusions and High Throughput Screening for Therapeutic Interventions in Acute Erythroid Leukemia” **Emily Hollis**, Ilaria Iacobucci, PhD, Charles Mullighan. MBBS, MSc, MD, St. Jude Children’s Research Hospital POE Lunch and Learn Series. Oral presentation. Memphis, TN. 2 Aug 2017

“Characterization of HIF2 and PBRM1 in Clear Cell Renal Cell Carcinoma” **Emily Hollis**, Mariesa Slaughter, Ian Davis, MD, PhD. UNC Chapel Hill Biology Undergraduate Research Symposium. Poster presentation. Chapel Hill, NC. 21 Apr 2017.