

Christina E. Henson, MD

800 NE 10th St., L100 Oklahoma City, OK 73104
PHONE 405-271-3016 · EMAIL CHRISTINA-HENSON@OUHSC.EDU

EMPLOYMENT

University of Oklahoma Health Sciences Center

- Stephenson Cancer Center Medical Director for Radiation Oncology (2020-present)
- Radiation Oncology Residency Program Director (May 2019 – present)
- Assistant Professor, Department of Radiation Oncology (July 2017-present)
- Resident Physician, Department of Radiation Oncology (July 2013- June 2017)
- Resident Physician, Department of Internal Medicine (July 2012-June 2013)

BOARD CERTIFICATIONS

Radiation Oncology Physics – Passed, 2016
Radiation Oncology Biology – Passed, 2016
Radiation Oncology Clinical Exam – Passed, 2017
Radiation Oncology Oral Exams – Passed, 2019

EDUCATION

University of Oklahoma College of Medicine (August 2008 – May 2012)

- *Doctor of Medicine*

University of Oklahoma (August 2005 – May 2008)

- *Bachelor of Science, Multidisciplinary Studies, summa cum laude*

RESEARCH EXPERIENCE

Grant Support

College of Medicine Alumni Research Scholar (\$44,650): Feasibility study of virtual reality software to reduce stress in cancer patients receiving radiation therapy. Begins July 2021.

Cancer Prevention and Control / Cancer Therapeutics Stephenson Cancer Center Seed Grant (\$20,000): Quality of Life Assessment of Hypofractionated Radiotherapy in Recurrent Head and Neck Cancer. Ends on 4/30/22.

National Trial Principal Investigator

NRG HN2139, Radiation Oncology Principal Investigator

Investigator-Initiated Trials

Principal Investigator

OU-SCC-QUADSHOT (NCT04373642): A single-arm phase II trial of palliative “QUAD SHOT” radiotherapy combined with pembrolizumab in patients with recurrent head & neck cancer

Feasibility study of virtual reality software to reduce stress in cancer patients receiving radiation therapy (IRB pending)

Quality of life assessment of hypofractionated radiotherapy in recurrent head and neck cancer (IRB pending)

OU201903CH_Radiation Therapy: Collection of tissue specimens and clinical data from patients treated with radiation therapy for biologic analysis (IRB 11580)

Co-Principal Investigator

OUSCC-FIERCE (NCT03932409): A phase Ib trial of vaginal cuff brachytherapy + pembrolizumab (MK3475) followed by 3 cycles of dose dense paclitaxel/q21 day carboplatin + pembrolizumab in high intermediate risk endometrial cancer

Co-Investigator

Project Persist: mHealth for cancer survivorship

Characterizing cannabis use among adults undergoing cancer treatment

Site Principal Investigator

Overall site PI for RTOG Foundation Trials

NRG HN009 – Randomized phase II/III trial of radiation with high-dose cisplatin every three weeks versus radiation with low-dose weekly cisplatin for patients with locoregionally advanced squamous cell carcinoma of the head and neck

RTOG 1008 - A randomized phase II/III study of adjuvant concurrent radiation and chemotherapy versus radiation alone in resected high-risk malignant salivary gland tumors

EA 3132 - Phase II randomized trial of radiotherapy with or without cisplatin for surgically resected squamous cell carcinoma of the head and neck with TP53 sequencing

EA 3161 - A phase II/III randomized study of maintenance nivolumab versus observation in patients with locally advanced, intermediate risk HPV positive oropharyngeal cancer

CCTG-MA.39 – TAILOR RT: A randomized trial of regional radiotherapy in biomarker low risk node positive breast cancer

NRG BR007 – A phase III clinical trial evaluating de-escalation of breast radiation for conservative treatment of stage I, hormone sensitive, HER2-negative, oncotype recurrence score=18 breast cancer

NRG-HN005 – A randomized phase II/III trial of de-intensified radiation therapy for patients with early-stage, P16-positive, non-smoking associated oropharyngeal cancer

NRG-HN004 – Randomized phase II/III trial of radiotherapy with concurrent MEDI4736 (durvalumab) vs. radiotherapy with concurrent cetuximab in patients with locoregionally advanced head and neck cancer with a contraindication to cisplatin

Alliance_A221505 – Phase III randomized trial of hypofractionated post mastectomy radiation with breast reconstruction

EnzyChem_EC-18-202 – Phase II, multi-center, randomized, double-blind, placebo-controlled study to evaluate the safety and efficacy of EC-18 in altering the severity and course of oral mucositis in patients being treated with concomitant chemoradiation therapy for cancers of the mouth, oropharynx, hypopharynx, and nasopharynx

MDA-2012-0825 – Phase II/III randomized trial of intensity-modulated proton beam therapy (IMPT) versus intensity-modulated photon therapy (IMRT) for the treatment of oropharyngeal cancer of the head and neck

GORTEC Debio 1143-SCCHN-301 – A randomized, double-blind placebo-controlled, Phase 3 study of Debio 1143 in combination with platinum-based chemotherapy and standard fractionation IMRT in patients with locally advanced squamous cell carcinoma of the head and neck, suitable for definitive chemoradiotherapy (TrilynX)

PUBLICATIONS

Henson C., Mayadev J., Wong S., Zamarin D. Cancer trials as opportunities to serve and learn from individuals with human immunodeficiency virus. In review, *JNCI*, manuscript number JNCI-22-0393.

Parker A., Kellogg A., Krempel G., Fowle E., Morton D., Henson C. Pathologic complete response following low-dose radiation for advanced oral cavity cancer in a patient with human immunodeficiency virus: a case report. Undergoing revisions at *Journal of Otolaryngology-Head & Neck Surgery*.

McDowell L., Rischin D., Gough K., **Henson C.** Health-related quality of life, psychosocial distress and unmet needs in older patients with head and neck cancer. *Frontiers in Oncology*, 2022 Feb 15. DOI: 10.3389/fonc.2022.834068

Nguyen, M., Derouen, J. T., Cantrell, N., Johnston, A., Vidal, G. S., Schutz, A., Ogilvie, W., Businelle, M., Ahmad, S., & **Henson, C.** (in press). Rural disparities in head and neck cancer from 2017-2021 – A single institution analysis. *Journal of Radiotherapy in Practice* (JRP-D-22-00015R1).

Richards Z., Nguyen, M., Kutteh M., **Henson, C.**, . . . Ahmad S. Ocular malignancies treated with brachytherapy at a single high-volume institution: a retrospective review. Undergoing revisions at *Medical Dosimetry*.

Vidal G., Arntzen J., Ahmad S., **Henson C.** A dosimetric comparison of proton versus photon irradiation for pediatric glomus tumor – a case study. Under review at *Journal of Radiotherapy in Practice*.

Gordhandas S., Manning-Geist B., **Henson C.**, Iyer G., . . . Grisham R. Pre-clinical activity of the oral DNA-PK inhibitor, M3814, combined with radiation in xenograft models of cervical cancer. *Scientific Reports*, 12, 974(2022). PMID: 35046420.

Bauman J., Harris J., Uppaluri R., . . . **Henson C.**, . . . Le Q. et al. NRG-HN003: Phase I and expansion cohort study of adjuvant pembrolizumab, cisplatin, and radiation therapy in pathologically high-risk head and neck cancer. *Cancers* 2021, 13, 2882. PMID: 34207599.

Miller B, Chalfant H, Thomas A, Wellberg E, **Henson C.**, McNally MW, Grizzle WE, Jain A, McNally LR. Diabetes, Obesity, and Inflammation: Impact on Clinical and Radiographic Features of Breast Cancer. *Int J Mol Sci.* 2021 Mar 9;22(5):2757. PMID: 33803201.

Nguyen M., Mohammad-Zadeh A., Krempl G., Razaq M., Collins L, Zahoor T., **Henson C.** Merkel cell carcinoma: treatment and outcomes over a ten-year period at a high-volume academic center. *Int J Dermatol*, 2022. <https://doi.org/10.1111/ijd.15759>

Thompson J., Chen Y., Ali I., **Henson C.**, . . . Ahmad S. Novel use of a vaginal cylinder purposed dually as obturator and localizer for stereotactic ablative radiotherapy delivery. *Journal of Radiotherapy in Practice*, 2021.

Nguyen ML, Cantrell JN, Ahmad S, **Henson C.** Intensity-modulated proton therapy (IMPT) versus intensity-modulated radiation therapy (IMRT) for the treatment of head and neck cancer: A dosimetric comparison. *Med Dosim.* 2021 Feb 26:S0958-3947(21)00013-3. doi: 10.1016/j.meddos.2021.02.001. Epub ahead of print. PMID: 33648823.

Nguyen M., Pius P., Dooley W., Squires R. . . . , **Henson C.** A prospective single-institution study of intraoperative radiotherapy (IORT) for early-stage breast cancer. *The Breast Journal.* (2020 Dec 3). Doi:10.1111/tbj.14128. PMID: 33274553

Nguyen M., Melton M., Ahmad S., **Henson C.** Spontaneous regression of Merkel cell carcinoma in anterior mediastinum without cutaneous involvement. *Journal of Radiotherapy in Practice* (2020), 1-2. Doi:10.1017/S1460396920000862

Kellogg A., Ahmad S., **Henson C.** Prone treatment position as a novel option for head and neck cancer patients with unmanageable secretions. *Journal of Radiotherapy in Practice.* 2020.

Muller L, **Henson C.**, Firestone B., Ahmad S., Herman T., Herman T. Radiation treatment to a postresection primary mucoepidermoid carcinoma (MEC) of the conjunctiva with positive margins at the Tenon's fascia – a case study. *Journal of Medical Dosimetry*, published online 23 October 2018. PMID 30366619

Henson C. et al. Using clinical judgment when pathology and imaging do not correlate: A case for healthy skepticism from the radiation oncologist in the interpretation of surgical pathology. *Practical Radiation Oncology.* (2015) 5, 28-31. PMID 25413427

Matthiesen, C.L., **Forest* C.**, et al. The role of radiation therapy for large and locally advanced non-melanoma skin carcinoma. *Journal of Radiotherapy in Practice.* (2013) Vol 12(1) 56-65. (No PMID available)

Matthiesen, C.L., **Forest* C.**, et al. The role of radiotherapy for T4 non-melanoma skin carcinoma. *Journal of Medical Imaging and Radiation Oncology.* (2011) Vol 55(4) 407-416. PMID 21843177

Sevelinges, Y., **Forest* C.**, et al. Adult depression-like behavior, amygdala and olfactory cortex functions are restored by odor previously paired with shock during infant's sensitive period attachment learning. *Dev. Cogn. Neurosci.* (2010). PMID 21037982

NATIONAL TALKS

2021 ADROP Annual Meeting: Perception of Radiation Oncology Panel Discussion. Panelist (sole ADROP representative, with one representative each from ADROP, SCAROP, AROPC, ARRO)

Henson, C. Stereotactic radiosurgery for meningiomas in and around the cavernous sinus. invited lecture, NASBS national meeting, 2020. (invited talk)

Radiation Oncology Virtual Education Rotation (ROVER 2.0) For Residents: Head & Neck Malignancies Panel February 5, 2021. Panelist.

Inside the Match Podcast: "Tips from a Radiation Oncology Program Director: Dr. Henson". May 27, 2021.

Radiation Oncology Virtual Education Rotation (ROVER) for Students: Head & Neck Malignancies Panel. July 23, 2021. Panelist.

ABSTRACTS & PRESENTATIONS

OSCO Presents "Best of" SABCS Virtual Symposium – Invited lecturer, March 2022. "One week of whole breast radiotherapy as the new standard of care." Debate with Professor Charlotte Coles.

Zuro et al. The evaluation of total marrow irradiation volumetric modulated arc therapy treatment planning using the Millennium and high-definition MLC. Submitted to AAPM 2022.

Henson et al. Phase 2, randomized, double-blind trial of EC-18 versus placebo to mitigate the development and time course of oral mucositis from concomitant chemoradiation for head and neck cancer. Submitted to ASCO and MASCC/ISOO 2022.

Schutz A., Owen J., Henson C. With decreasing applicant numbers, we have piloted a hands-on open house event to increase interest and participation of medical students without our department and field of radiation oncology. Submitted to ASTRO 2022.

Vidal G., Cantrell J., Pius P., Henson C. Minding the gap: assessment of radiation oncology knowledge in primary care residents. Submitted to ASTRO 2022.

Henson C. Barriers to care faced by head and neck cancer patients in Oklahoma. Stephenson Cancer Center Annual Cancer Research Symposium 2022.

Nguyen M., Hsieh M., Henson C., Krempf G. Neoadjuvant QUAD shot for downstaging or temporizing measure prior to definitive surgery for locally advanced oral cavity cancer. Poster presentation at ASTRO Multidisciplinary Head and Neck Symposium 2022.

Cantrell J., . . . Henson C., . . . Algan O. Are traditional indications for radiation appropriate in small cell carcinoma of the breast? An NCDB outcomes analysis and treatment utilization report. Poster presentation at SABCS 2021.

Kharouta M., . . . Henson C., Bhatt A. et al. Nomogram for predicting survival in patients receiving definitive chemoradiation for locally advanced squamous cell carcinoma of the head and neck: a secondary analysis of NRG/RTOG 0129, 0522, and 1016. Oral presentation, ESMO 2021.

Richards, Z., Nguyen, M., Firestone, B., Kutteh, M., Henson, C., Ahmad, S., Herman, T., De La Fuente Herman, T. Retrospective single institution clinical and radiobiological review of high volume ocular melanoma patients treated with LDR brachytherapy – poster at AAPM annual meeting 2020.

Richards, Z., Nguyen, T., Henson, C., Ahmad S., Herman, T, De La Fuente Herman, T. On the dosimetric quality of current external beam radiation technologies for partial breast irradiation –poster at AAPM annual meeting 2020.

Nguyen, M., Henson, C. et al. A prospective study of intraoperative radiotherapy (IORT) for early-stage breast cancer. Accepted for poster presentation at SSO Society of Surgical Oncology conference 2020.

Melton, M., Henson, C. et al. Electron accelerated partial breast irradiation (APBI): a dosimetric and toxicity comparison of electrons, tangents, intensity modulated radiotherapy (IMRT), and volumetric modulated arc therapy (VMAT) and analysis of skin dose. Accepted for publication in *Annals of Surgical Oncology*.

Price, A., Kellogg, A., Henson, C. Declining efficacy of definitive radiotherapy (RT) for T4 non-melanoma skin cancers (NMSC): a reverse Will Rogers phenomenon. Accepted for poster presentation at ASTRO Head & Neck Symposium 2020.

Henson, C. et al. Intensity-modulated proton therapy (IMPT) for head and neck cancer (HNC): problems encountered and solutions developed in the first six months of patient treatment. Accepted for poster presentation at ASTRO Head & Neck Symposium 2020.

Brown, A., Henson, C. et al. Use of post-operative external beam radiation therapy in patients with differentiated thyroid cancer. Accepted for poster presentation at ASTRO Head & Neck Symposium 2020.

Henson, C. et al. Prone treatment position as a novel option for head and neck cancer patients with unmanageable secretions. Accepted for poster presentation at ASTRO Head & Neck Symposium 2020.

Vidal, G., Henson, C. et al. A dosimetric comparison of proton versus photon irradiation for pediatric glomus tumor. Accepted for poster presentation at ASTRO Head & Neck Symposium 2020.

Evans, E., Henson, C. et al. The effect of BMI on radiation dosing and survival in patients with locally advanced cervical cancer. Oral presentation, WAGO 2019 annual meeting.

Mohammad-Zadeh, Ana, Henson, C. et al. Merkel Cell Carcinoma (MCC): Treatment and Outcomes Over the Past Ten Years at a High-Volume Academic Center. Poster presentation, ASTRO 2019 Annual Meeting.

Brown, A, Henson, C. et al. A novel approach to neoadjuvant chemoradiation for soft tissue sarcoma using cisplatin and adriamycin. ASCO 2019 annual meeting online poster.

Henson, C. et al. Extrapulmonary small cell carcinoma (EPSCC): single institution review of management and outcomes. ASTRO 2015 Annual Meeting, San Antonio, TX.

Henson, C. et al. Outcomes in patients with whole brain radiotherapy versus stereotactic radiosurgery for brain metastases secondary to non-small cell lung cancer. ASTRO 2014 Annual Meeting, San Francisco, CA.

Muller L., Henson C. et al. Considerations on radiation treatments for the rare case of mucoepidermoid carcinoma of the conjunctiva post-resection with positive margins at the tenon fascia. AAPM 2018 oral presentation

Pham H., Henson C. et al. Dosimetry of alternative techniques for accelerated partial breast irradiation. Poster presentation at AAMD 2018.

Weir, J.W., Henson, C. et al. Efficacy of Chemoradiation in Locally Advanced (Borderline Resectable and Unresectable) Pancreatic Cancer Remaining Unresectable after Neoadjuvant Chemotherapy. ASTRO 2017 Annual Meeting.

Matthiesen, C.L., Forest*, C., et al. The use of radiation therapy for advanced T4 non-melanoma skin carcinoma. ACRO 2011 Annual Meeting, San Diego, CA.

Matthiesen, C.L., Forest*, C., et al. The role of radiotherapy for large and locally advanced non-melanoma skin carcinoma. Submitted to ASTRO 2011 Annual Meeting, Miami, FL.

Matthiesen, C.L., Forest*, C., et al. A comparison of the application and changes in outcomes between the AJCC 6th vs. 7th Ed. to the staging of large and locally advanced NMSC. Poster, ASTRO Multidisciplinary Head & Neck Symposium 2012, Phoenix, AZ.

LEADERSHIP & ACTIVITIES

Co-Director, Stephenson Cancer Center Breast Program – March 2022 – present

Residency Program Director, Radiation Oncology – May 2019 – present

Co-Chair, Head and Neck Cancer International Group (HNCIG), Young Investigators Committee – Fall 2020 – Fall 2022

NRG Head and Neck Cancer Core Committee – January 2022 – present

NRG Developmental Therapeutics RT Subcommittee – January 2022 - present

NRG Champion for EA3161: A Phase II/III Randomized Study of Maintenance Nivolumab Versus Observation in Patients With Locally Advanced, Intermediate Risk HPV Positive

OPSCC

Chair, Head & Neck CRDSG (Clinical Research Disease Site Group) at Stephenson Cancer Center – Summer 2020 - present

Stephenson Cancer Center Cancer Therapeutics research program – Full Member

NRG New Investigators Committee – Winter 2020 – Winter 2023

International Journal of Radiation Oncology, Biology, Physics - reviewer

Advances in Radiation Oncology –reviewer

Practical Radiation Oncology –reviewer

International Journal of Dermatology - reviewer

Journal of Radiation Research – reviewer

Therapeutic Advances in Medical Oncology - reviewer

ASTRO State Captain Initiative 2019-2022

OU Hematology Oncology Grand Rounds
Current topics in breast radiotherapy (Oct 2021)

OU Dermatology Grand Rounds
A primer in radiation oncology for the dermatologist (Feb 2021)

Head & Neck Cancer Lecture Series
Given to Radiation Oncology Residents – all lectures

Breast Cancer Lecture Series
Given to Radiation Oncology Residents – APBI, locally advanced breast cancer

Stephenson Cancer Center Annual Cancer Research Symposium
Invited Speaker – “Head and neck cancer – challenges faced and barriers to care (and how we’re trying to fix them)” - 2022

Prostate & Urologic Cancers Symposium
Speaker – “Radiation Therapy: What’s New For Localized Disease” - 2018
Speaker – “Updates in Prostate Radiotherapy” - 2019

Gynecology Oncology Fellows Lecture Series
Speaker – “Radiation Oncology for the Gynecologic Oncologist”

Data Safety Monitoring Committee
Member (July 2017 – present)

Clinical Medicine I Boot Camp

Leader (2017-2018)

Thoracic Oncology Conference
Speaker (2017) – “Radiation 101”

Friends of the OU Breast Institute, Board of Advocates
Speaker (Dec. 2017) – Updates in Breast Radiation

SABCS Debriefing for Residents & Fellows
Speaker, Radiation in the context of neoadjuvant chemotherapy

OSCO (Oklahoma Society of Clinical Oncology) Board Member – July 2018

Dean’s Assistant Professors’ Advisory Group (DAPAG) – 2018

Admissions Committee Member – Department of Radiological Sciences – 2018

OUHSC Medical Physics Program Masters Thesis Committee

Experimental Medicine and Developmental Therapeutics committee member 2019-present

KU Mock Orals - 2021

OU Mock Orals – 2021, 2022

NIH Grant Writing Workshop - 2021

PROFESSIONAL AFFILIATIONS & HONORS

ASTRO (American Society for Radiation Oncology)

OSCO (Oklahoma Society of Clinical Oncology)

ABR (American Board of Radiology)

National Merit Scholar 2005 - 2010

University of Oklahoma College of Medicine Merit Scholarship 2008 - 2011

Regent’s Scholar 2005-2009

*Maiden name