Jeffrey M. Ryckman, M.D., M.S.M.P.

Cell 770-289-4429 jeff.ryckman@unmc.edu

EDUCATION

2004 - 2008	Furman University, Greenville, SC B.S. in Physics, May 2008 <i>Member of the Dean's List, 2006-2008</i>
2008 - 2011	Georgia Institute of Technology , Atlanta, GA M.S. in Medical Physics, May 2011
2011 - 2015	Medical College of Georgia at Augusta University, Augusta, GA M.D., May 2015
2015 - 2016	Medical College of Georgia at Augusta University, Augusta, GA Internship in Internal Medicine
July 1, 2016 – June 30, 2020	University of Nebraska Medical Center , Omaha, NE Radiation Oncology Residency

MANUSCRIPTS IN PREPARATION

Ryckman JM, Baine M, Zhen W, Lin C, Zhang C. Correlation of Dosimetric Factors with Development of Symptomatic Radiation Pneumonitis in Stereotactic Body Radiotherapy. *Submitted to ASTRO 2019.*

Ryckman JM, Baine M, Sampson K, Zhang C. Timing of Adjuvant Radiation Therapy in Glioblastoma Patients: A National Cancer Database Report.

ABSTRACTS AND PRESENTATIONS

Ryckman JM (2009) Contributions of Neutrons to Dose of Varying Energy Proton Beams. *American Nuclear Society Student Conference,* April 4th, 2009

Ryckman JM (2009) Improving Efficiency of Monte Carlo Modeling in Proton Therapy. *Nuclear and Radiological Engineering and Medical Physics Annual Research Fair at Georgia Tech*, August 27th, 2009

Ryckman JM and Petrovic B (2010) Using MCNPX to Calculate Primary and Secondary Dose in Proton Therapy. *Inaugural Georgia Tech Research and Innovation Conference*, February 8th, 2010

Ryckman JM (2013): Oral Presentation. Anatomic Deformable Image Registration in Radiotherapy for Cervical Cancer Including HDR Brachytherapy Implants. 2013 American Brachytherapy Society Annual Meeting, April 19th, 2013

PUBLICATIONS

Ryckman JM, Shelton J, Hall WA, Waller AF, Schreibmann E, Latifi K and Diaz R (2016). Anatomic structure-based deformable image registration of brachytherapy implants in the treatment of locally advanced cervix cancer. Brachytherapy. 2016 Jun 1.

Verma V, **Ryckman JM**, Simone CB, Lin C. Patterns of care and outcomes with the addition of chemotherapy to radiation therapy for stage I nasopharyngeal cancer. Acta Oncologica. 2017 Jul 18:1-5.

Ryckman JM, Kusi Appiah A, Simone, II CB, Verma V. Treatment approaches for nasopharyngeal adenoid cystic carcinoma. Acta Oncologica. 2018 Jan 16:1-7.

Ryckman JM, Lin, Chi, Simone CB, Verma V. Patterns of Care for Stage IA Cervical Cancer: Utilization of Definitive Radiation Therapy versus Hysterectomy. International Journal of Gynecological Cancer. 2018 May; 18(4):773-781.

Verma V, Sleightholm R, Fang P, **Ryckman JM**, Lin C. National Cancer Database Report of Nonmetastatic Esophageal Small Cell Carcinoma. Cancer Medicine. 2018. Dec;7(12):6465-6373.

Ryckman JM, Ganesan V, Adams K, Zhang C, Verma V. National Practice Patterns of Proton versus Photon Therapy in the Treatment of Adult Patients with Primary Brain Tumors in the United States. Acta Oncologica. 2018. 57(7):995-1001

Ryckman JM, Surkar S, Haque W, Butler EB, Teh BS, Verma V. Sequencing of Chemotherapy and Radiatiotherapy for Newly Diagnosed Anaplastic Olgiodendroglioma and Oligoastrocytoma. American Journal of Clinical Oncology. 2018.

Ryckman JM, Kusi Appiah A, Lyden E, Verma V, Zhang C. Concurrent versus Sequential Chemoradiation for Low-Grade Gliomas Meeting RTOG 9802 Criteria. American Journal of Clinical Oncology. 2018. Accepted.

AWARDS

2012	Emory Medical Scholars Student Award
May 2016	Runner up Internal Medicine Resident of the Year
May 2017	UNMC Fellow Research Night: Best Poster Finalist

RESEARCH/MENTORING EXPERIENCE

2008 - 2011	Graduate Research Assistant Designed a sample proton therapy facility and performed calculations of radiation dose distributions within a sample patient and treatment room. Preceptor: Bojan Petrovic, Ph.D. Department of Medical Physics, Georgia Institute of Technology
2011 – 2014	Clinical Research in Radiation Oncology Principal Investigator Performed Deformable Image Registration in the Evaluation of 3-D Planned High- Dose-Rate Brachytherapy Treatments of Cervical Cancer Preceptor: Roberto Diaz, M.D., Ph.D. Department of Radiation Oncology, Emory University School of Medicine
2017 –	Clinical Research Mentor Designed projects and statistical analytic design for various research projects while aiding medical and MD/PhD students in understanding of clinically relevant research questions. Studies primarily consisted of retrospective single institution data as well as NCDB analysis including CNS and lung malignancies. Department of Radiation Oncology, University of Nebraska Medical Center

CLINICAL EXPERIENCE

Intensity Modulated Radiation Therapy Stereotactic Body Radiation Therapy Intracranial and Extracranial Stereotactic Radiosurgery Brainlab and Eclipse Stereotactic Radiation Treatment Planning Conformal External Beam Radiation Therapy Radionuclide Treatment I-131, Ra-223 Pinnacle, iPlan, and Eclipse Treatment Planning Software Velocity Image Registration and Plan Evaluation 4D CT Simulation and Deep-Inspiration Breath Hold Techniques Image Guided Radiotherapy True Beam Calypso Exact-Trac Varian OSMS Image Guidance Interstitial and Extracranial Stereotactic Radiosurgery Balloon-based accelerated partial breast irradiation HDR Cervix/Vaginal cuff Brachytherapy

WORK EXPERIENCE

- 2003 2012 **Remtech Engineers, Inc.**, Marietta, GA Environmental Technician <u>www.remtech-eng.com</u> Responded to over 200 chemical releases including major highway incidents Managed over 20 personnel in time-sensitive, high pressure situations
- May Oct 2010Radiation Safety Office, Georgia Tech, Atlanta, GeorgiaRadiation Safety WorkerRadiation Safety WorkerMaintained and monitored radiation detection equipment and radioactive sources

TEACHING EXPERIENCE

- 2018 Rad Onc Questions Ad Hoc Resident Editor
- 2014 2015 Kaplan Class Representative
- 2010 2013 **ExamKrackers** Atlanta, GA MCAT Comprehensive Review Course Instructor *Taught over 150 students in classes held at Georgia Tech and Emory Trained new instructors for courses in the Atlanta area*
- 2006 2008 **Furman University** Greenville, SC Physics Laboratory Assistant

PROFESSIONAL MEMBERSHIPS

2008 –	Alpha Epsilon Delta, The Health Pre Professional Honors Society
2008 –	Sigma Pi Sigma, The National Physics Honor Society
2009 – 2011	American Association of Physicists in Medicine (AAPM)
2012 –	Radiological Society of North America (RSNA)
2013 –	American Brachytherapy Society (ABS)
2015 –	American Society for Radiation Oncology (ASTRO)
2016 –	Association of Residents in Radiation Oncology (ARRO)

EXTRACURRICULAR ACTIVITIES

2004 – 2008	Club Rugby, Furman University
2004 – 2005	Rugby Division III National Champions
2005 – 2008	Member, Sigma Chi
2006 – 2008	Social Chairman, Sigma Chi
2007 – 2008	Rugby Division III National Finalists
May – Oct 2010	STAMPS Health Center, Volunteer, Georgia Tech
March 2011	Medical Mission Trip to Tela, Honduras, Christian Medical and Dental Association
June 2011	Medical Mission Trip to Port-Au-Prince, Haiti, CMDA
2011 – 2015	Social Vice President, Medical College of Georgia Class of 2015
June 2012	Medical Mission Trip to Port-Au-Prince, Haiti, CMDA
June 2013	Medical Mission Trip to Port-Au-Prince, Haiti, CMDA

HOBBIES

Dogs, travel, biking, cooking (instant pot, sous vide), ethnic food, Crossfit.

REFERENCES

Available upon request.