Michelle Schwer, MSc, DABR

CAREER OBJECTIVE

Provide patient-centered care by applying innovative and quality approaches to ensure safe, accurate, and timely treatments.

EDUCATION

Vanderbilt University Masters of Science in Medical Physics CAMPEP Accredited Program

Tennessee Technological University

Bachelors of Science in Physics Minor in Mathematics Member of the Physics Honors Society, Sigma Pi Sigma Graduated Magna Cum Laude

PROFESSIONAL EXPERIENCE

Rhode Island Hospital Brown University

Clinical Assistant Professor

- Service lead for Image Guided Radiotherapy
- Clinical Protocols Liaison
- Implemented TG263 compliant structure sets into RayStation TPS
- Team member handling HDR and LDR prostate cases
- CyberKnife planning for Cranial cases
- Revising CT-Sim Quality Assurance
- Assessing MIM software for clinical and research feasibility
- Supervised education of physician and medical physics residents

East Carolina University

Clinical Assistant Professor

- Developed clinical procedure for simulation, planning, quality assurance, and treatment of Rapid Arc craniospinal treatments
- Lead physicist for planning specialized cases, pediatrics, and all protocol patients
- Implemented dosimetry goal sheets and standardized nomenclature for all treatment sites that are robust enough for adaptive radiotherapy
- Executed the departmental use of dotDecimal for custom electron blocks
- Modeled the Calypso treatment couch in Eclipse V11
- Worked with the Chief Physicist to update the departmental QA procedures for both the CT Simulator and the Linear Accelerators

August 2016 - February 2018 Greenville, NC

May 2008

May 2010

February 2018 - Present Providence, RI

Supervised education of medical physics residents and graduate students

- Served on the departmental committee for process improvement and LEAN technique implementation
- Team member on commissioning a Varian TrueBeam V2.5 including respiratory gating and SRS/SBRT capabilities
- Lead brachytherapy physicist

HannLeb Physics, Inc

Consulting Medical Physicist

- Performed daily, monthly, and annual quality assurance on a variety of linear accelerators
- Ensured that QA procedures were in compliance with TG-142, TG-51, and state regulations -
- Routinely performed absolute dose measurements and calibrations
- SRS and SBRT commissioning -
- Functioned as an ARIA administrator -
- Acted as a leader in the department implementing Meaningful Use -

RadPhys Oncology, LLC

Consulting Medical Physicist

- Responsible for routine linear accelerator quality assurance -
- Performing patient specific quality assurance -
- Participated in two separate accelerator commissioning projects -
- Leader in incorporating TG142 quality assurance tests into the existing QA program

Vanderbilt University

Radiation Safety Compliance Officer

- Responsible for annual calibration of survey meters
- Received and logged any incoming or outgoing radioactive material -
- Labs certified for radiation use were surveyed monthly, guarterly, or semiannually to locate radiation contamination or non-compliance issues

CLINICAL HARDWARE AND SOFTWARE

TrueBeam, 2100IX, 2100EX, and a 2100SC (Varian)
Versa HD and Inifinity (Elekta)
CyberKnife (Accuray)
Primus (Siemens)
HDR afterloaders (Nucletron and Varian)
Phillips, GE, and Siemens CT Simulators
Varian Conventional Simulator
Varian RMP System and Phillips Bellows
Eclipse, Oncentra, RayStation, Variseed for LDR cases,
Multiplan (CyberKnife), and Pinnacle
Velocity, Mirada, and MIM
ARIA and Mosaiq

August2010 - January 2012 Knoxville, TN

June 2008 - June 2009

Nashville. TN

August 2013 - August 2016 Gastonia. NC

RadCalc, Mobius, MUCheck, and Diamond SNC Patient, SNC Profiler, SNC Machine, Portal Dosimetry, ImageJ, and Doselab

ABSTRACTS

S. Sharma, J Yoon, **M Schwer**, A Ju Treatment Planning Comparison of CyberKnife and Linac-Based SBRT *AAPM Annual Meeting 2018*, accepted as a poster presentation

Ad Hoc Reviewer

2018 – Brachytherapy

CLINICAL PROTOCOLS SUPPORTED

NRG-BR001 A Phase I study of stereotactic body radiotherapy (SBRT) for the treatment of multiple metastases

NRG-BR002 A Phase IIR/III trial of standard of care therapy with or without stereotactic body radiotherapy (SBRT) and/or surgical ablation for newly oligometastatic breast cancer

NRG-B51 A Randomized Phase III clinical trial evaluating post-mastectomy chestwall and regional nodal XRT and post-lumpectomy regional nodal XRT in patient with positive axillary nodes before neoadjavant chemotherapy who convert to pathologically negative axillary nodes after neoadjavant chemotherapy

NRG-GY006 A Randomized Phase II trial of Radiation Therapy and Cisplatin Alone or in Combination with Intravenous Triapine in Women with Newly Diagnosed Bulky Stage IB2, Stage II, IIIB, of IVA Cancer of the Uterine Cervix or Stage II-IVA Vaginal Cancer

Alliance A011202 A Randomized Phase III Trial Combining Axillary Lymph Node Dissection to Axillary Radiation in Breast Cancer Patients (cT1-3 N1) who have positive Sentinel Lymph Node disease after neoadjavant chemotherapy

Alliance A071102 A Phase II/III Randomized trial of Veliparib or Placebo in combination with adjavant Temozolomide in newly diagnosed Glioblastoma with MGMT Promoter Hypermethylation

Alliance A021501 Preoperative extended chemotherapy vs. chemotherapy plus hypofractionated radiation therapy for borderline resectable adenocarcinoma of the head of the pancreas

COG AEWS1221 Randomized Phase II Trial evaluating the addition of the IGF-1R Monoclonal Antibody Ganitumab (AMG 479, NSC# 750008, IND# 120449) to multiagent Chemotherapy for Patients with newly diagnosed metastatic Ewing Sarcoma

COG AHOD1331 A Randomized phase III study of Brentuximab Vedotin (SGN, IND #117117) for newly diagnosed high-risk classical Hodgkin Lymphoma (cHL) in children and adolescents

COG AALL1131 A phase III randomized trail for newly diagnosed high risk B-Lymphoblastic leukemia (B-ALL) Including a Stratum evaluating Dasatinib (IND#73789, NSC#732517) in patients with ph-like tyrosine kinase inhibitor (TKI) sensitive mutations

COG AALL1231 A Phase III randomized trial investigating Bortezomib (SC# 681239; IND#58443) on a modified augmented BFM (ABFM) backbone in newly diagnosed T-Lymphoblastic leukemia (T-ALL) and T-Lymphoblastic Lymphoma (T-LLy)

COG ACNS0331 A study evaluating limited target volume boost irradiation and reduced dose craniospinal radiotherapy (18.00 Gy) and chemotherapy in children with newly diagnosed standard risk medulloblastoma: A phase III double randomized trial

COG ACNS0332 Efficacy of Carbotin administered concomitantly with radiation and Isotretinoin as a proapoptotic agent in other than average risk medulloblastoma/PNET patients COG ACNS0822 A randomized phase II/III study of Vorinostat (IND#71976) and local irradiation OR Temozolomide and local irradiation OR Bevacizumab (IND#7921) and local irradiation followed by maintenance Bevacizumab and Temozolomide in children with newly diagnosed high-grade gliomas **COG AHOD03P1** Treatment of children with newly-diagnosed low stage lymphocyte predominant Hodgkin

Disease (LPHD)

COG AREN0532 Treatment for very low and standard risk favorable histology Wilms tumor

COG AREN0533 Treatment of newly diagnosed higher risk favorable histology Wilms tumor

COG ARST1321 Pazopanib neoadjuvant trial in non-Rhabdomyosarcoma soft tissue sarcomas (PAZNTIS): A Phase II/III randomized trial of preoperative chemoradiation or preoperative radiation plus or minus pazopanib (NSC# 737754, IND#118613)

COG ARST1431 A Randomized Phase 3 study of Vincristine, Dactinomycin, Cyclophosphamide (VAC) alternating with Vincristine and Irinotecan (VI) versus VAC/VI plus Temsirolimus (TORI, Torisel, NSC# 683864, IND# 122782) in Patients with Intermediate Risk (IR) Rhabdomyosarcoma (RMS)

BrUOG 265 Phase I and Pharmacology study of Oral 5-Iodo-2-Pyriminone-2'-Deoxyribose (IPdR) as a prodrug for IUdR-mediated tumor radiosensitization in Gastrointestinal cancers

BrUOG R302 BYL719, Capecitabine and Radiation for Rectal Cancer: a Brown University Oncology **Research Group Phase I Study**

GOG-0263 Randomized Phase III clinical trial of adjuvant radiation versus chemoradiation in intermediate risk, stage I/IIA cervical cancer treated with initial radical hysterectomy and pelvic lymphadenectomy

RTOG 0724 / GOG 0724 Phase III Randomized study of concurrent chemotherapy and pelvic radiation therapy with or without adjuvant chemotherapy in high-risk patients with early-stage cervical carcinoma following radical hysterectomy

RTOG 0848 A Phase II-R and a Phase III trial evaluating both *Erlotinib (PH II-R) and Chemoradiation (PH III) as adjuvant treatment for patients with resected head of pancreas adenocarcinoma

PROFESSIONAL MEMBERSHIPS

Diplomate of the American Board of Radiology in Therapeutic Medical Physics Member of the American Association of Physics in Medicine since 2009 Member of the New England AAPM (NEAAPM) chapter since 2018

RESEARCH EXPERIENCE

May 2007 - Aug 2007 Durham, NC

May 2006 – August 2006

Research Assistant - Researched under Dr. Haiyan Gao in the setup of the 3He injection test in the search for the neutron electric dipole moment.

Purdue University

Duke University

Research Assistant

West Lafayette, IN Researched under Dr. Ken Ritchie performing single molecule imaging on *Escherihia coli* bacteria utilizing a fluorophore called Di I