

Medical Physicist, PhD, DABR, FAAPM

Contact Information

One Physics Ellipse
College Park, MD 20740
Home: (555) 314-1593
Cell: (555) 867-5309
medical.physicist@gmail.com

Education

University of Wisconsin, Madison WI

PhD in Medical Physics, 1996

Dissertation: "A clinical repudiation of the recently proposed, so-called, Intensity Modulated Therapy"

Western Kentucky University, Bowling Green KY

BS in Electrical Engineering, 1990

Professional Experience

Medical Physics Hospital, Denver CO, *Feb 2008 – Present*

Chief Medical Physicist

I have over 5 years of experience managing the Physics and Dosimetry for a facility with a high volume hospital-based radiation oncology center. The center utilizes three Varian Trilogy Clinacs, GYN HDR with Varian's VariSource HDR, and LDR prostate seed implants utilizing Varian's VariSeed planning system. I have direct supervision of 2 physicists and 4 dosimetry planning staff. Treatment planning includes 3D, IMRT, RapidArc, as well as SRS and SBRT utilizing BrainLab. In 2010, we made a full transition to paperless EMR utilizing the Varian Aria software suite.

University of State Medical Center, Oklahoma City OK, *June 2000 – Feb 2008*

Solo Medical Physicist

Solely responsible for performing IMRT QA with MapCheck. Supervised one dosimetrist, and aided in the creation of three dimensional treatment plans with ADAC Pinnacle. Oversaw the fabrication of cerrobend electron blocks. Measured cutout factors and performed second check plans with RadCalc. Performed all quality assurance tests for an Elekta Precise linear accelerator. Performed all planning and radiation safety for prostate seed implants with I-125. Performed all weekly patient chart checks.

Our Lady of Medical Physics Cancer Center, Topeka KS, July 1996 – May 2000

Staff Medical Physicist

One of three medical physicists for 3 centers (one main, two satellite). Shared in the responsibilities of Machine QA for 4 Varian Clinacs, GYN LDR Cs-137 implants, and planning 3D plans with Pinnacle ADAC. Performed cerrobend block output measurements and carried out 2nd check hand calcs of the computer treatment planning system.

Licensure and Certification

Radiation Therapy Qualified Expert, Denver CO, 2008 - present

**Authorized Medical Physicist for HDR Brachytherapy, Nuclear Regulatory Commission
2000 – present**

American Board of Radiology: Therapeutic Medical Physics, Tucson AZ, 1998 – present
Certificate Number: 555555

Professional Societies

American Association of Physicists in Medicine, College Park MD, 1992 – present
Fellow (2008)

Professional Services

AAPM Placement Services Subcommittee, Member, 2011 – present

American Board of Radiology Oral Examination, Examiner, 2000 – present

AAPM Professional Economics Subcommittee, Member, 1999 – 2006

Publications and Presentations

Papers

R. D. Timmerman, C. S. Bizakis, H. I. Pass, Y. Fong, D. E. Dupuy, L. A. Dawson, **M. Physicist**, and D. Lu, "Local surgical, ablative, and radiation treatment of metastases," *Ca-Cancer J. Clin.* **59**, 145–170 (2009)

T. E. Schefter, B. D. Kavanagh, R. D. Timmerman, **M. Physicist**, H. R. Cardenes, A. Baron, and L. E. Gaspar, "A phase I trial of stereotactic body radiation therapy (SBRT) for liver metastases," *Int. J. Radiat. Oncol., Biol., Phys.* **62**, 1371–1378 (2005)

Invited Talks

M. Physicist, "The Kobayashi Maru: What no-win treatment situations tell us about our Medical Physics Mettle," Keynote Address, Rocky Mountain Chapter of the AAPM, Fall Meeting; Salt Lake City UT, (2012)

M. Physicist, "The ArcCHECK VMAT Quality Assurance Phantom: I use it, I love it, it's my bag, baby!" Sun Nuclear Lunchtime Users Meeting at the 54th Annual Meeting of the AAPM; Charlotte NC, (2012)

References

Available upon request