

MEDICAL PHYSICIST, PHD, DABR, FAAPM

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EDUCATION

University of Wisconsin Madison, WI • Ph.D. in Medical Physics, 1996

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

Western Kentucky University Bowling Green, KY • B.S. in Electrical Engineering, 1990

Area of Research: Independent research project on Computed Tomography systems

PROFESSIONAL EXPERIENCE

Medical Physics Hospital Denver, CO (Feb 2008 - Present)

Chief Medical Physicist

- Over 5 years experience managing the Physics and Dosimetry for a facility with a high volume, hospital based radiation oncology center.
- The center utilizes the following:
 - Three Varian Trilogy Clinacs
 - GYN HDR with Varisource HDR and *BrachyVision*, Varian Medical Systems
 - LDR Prostate Seed Implants with *Variseed*, Varian Medical Systems
 - 3D, IMRT, and RapidArc VMAT planning with *Eclipse*, Varian Medical Systems
 - SRS and SBRT with *iPlan*, BrainLab
- Had direct oversight of patient specific checks and measurements, such as IMRT QA, special dosimetry, and special medical physics consults.
 - *RadCalc*, Lifeline Software
 - *MapCheck*, Sun Nuclear
 - *ArcCheck*, Sun Nuclear
 - *PIPSpro*, Standard Imaging
- In 2010, we made a full transition to paperless EMR utilizing *Aria*, Varian Medical Systems

University of State Medical Center Oklahoma City, OK (June 2000 - Feb 2008)

Solo Medical Physicist

- Direct oversight of one medical dosimetrist
- Aided the dosimetrist in the creation of 3D treatment plans using *Pinnacle*, ADAC
- Solely responsible for the following:
 - Patient specific QA with *MapCHECK*, SunNuclear
 - Patient plan second checks with *RadCalc*, Lifeline Software
 - Measured electron block cutout factors
 - All of the machine quality assurance procedures for one Elekta Precise linear accelerator
 - Planning and radiation safety for prostate seed implants with I-125, *Variseed*, Varian Medical Systems
 - Weekly patient chart checks for an average of 35 patients per week

Our Lady of Medical Physics Cancer Center Topeka, KS (July 1996 - May 2000)

Staff Medical Physicist

- One of three medical physicists covering three centers (one main, two satellite)
- Shared in the responsibilities for the following:
 - Machine quality assurance for four Varian Clinacs
 - GYN LDR Cs-137 implants
 - 3D plans with *Pinnacle*, ADAC
 - Cerrobend block output factor measurements
 - Second check hand calculations of the treatment planning system

LICENSURE AND CERTIFICATIONS

Colorado Department of Public Health and Environment, Radiation Control Denver, CO • Radiation Therapy Qualified Expert
2008 - Present

US Nuclear Regulatory Commission Washington, DC • Authorized Medical Physicist Status for ^{192}Ir HDR
2000 - Present

The American Board of Radiology Tuscon, AZ • Therapeutic Medical Physics
1998 - Present; Certificate Number: 55555

PROFESSIONAL SERVICE

AAPM Placement Services Subcommittee Member (2011 - Present)

- Working with the AAPM headquarters and the 3rd party career-site studio to provide a robust and feature-rich career website to AAPM members.

American Board of Radiology Oral Examination Examiner (2000 - Present)

- Helping to ensure the next generation of medical physicists are prepared to represent themselves as competent experts of the application of physics into the practice of medicine.

AAPM Professional Economics Subcommittee Member (1999 - 2006)

- Worked with various third party vendors to provide economically feasible services to the AAPM members.

PUBLICATIONS AND PRESENTATIONS

- Papers:

- R. D. Timmerman, C. S. Bizekis, 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**, 145170 (2009)
- T. E. Scheffer, 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**, 13711378 (2005)

- Invited Presentations:

- 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, its my bag, baby!" Sun Nuclear Lunchtime Users Meeting at the 54th Annual Meeting of the AAPM; Charlotte NC, (2012)

REFERENCES

Available upon request.