
BIOGRAPHICAL SKETCH

NAME Kerry R. Hibbitts		POSITION TITLE Medical Physicist Department of Radiation Oncology University of Oklahoma Health Sciences Center (OUHSC), Oklahoma City, OK	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
McMurry College/University University of Oklahoma Health Sciences Center	B.A. M.Sc.	1977 1980	Physics Radiological Science

A. Positions and Honors.**Professional Experience**

2007-present University of Oklahoma Medical Center
Department of Radiation Oncology, Staff Medical Physicist

2004-2007 University of Oklahoma Medical Center
Department of Radiation Oncology, Chief Dosimetrist

2002-2004 University of Oklahoma Medical Center
Department of Radiation Therapy, Radiation Physicist

1998-2002 University Health Partners
Department of Radiation Therapy, Medical Radiation Physicist

1991-1998 University Hospital and Clinics
Department of Radiation Therapy, Medical Radiation Physicist

1988-1991 University Hospital and Clinics
Department of Radiation Therapy, Assistant Medical Physicist

1984-1988 University Hospital and Clinics
Department of Radiation Therapy, Dosimetrist

1982-1984 University of Oklahoma Health Sciences Center
Department of Breast Screening, Honeywell Research Assistant

1977-1982 University Hospital and Clinics
Radiation Safety Office, Graduate Assistant

Certification

ABR (American Board of Radiology – Therapeutic Radiologic Physics), valid through 2021

Professional Affiliations

1983-present American Association of Physicists in Medicine (AAPM)

B. Peer Reviewed Journal Publications:

Tania De La Fuente Herman, Kerry Hibbitts, Terence Herman and Salahuddin Ahmad, "Evaluation of Pencil Beam Convolution and Anisotropic Analytical Algorithm in Stereotactic Lung Irradiation", Journal of Medical Physics 36 (2011)

Imad Ali, Jesse Tubbs, Kerry Hibbitts, Ozer Algan, Spencer Thompson, Terence Herman and Salahuddin Ahmad, "Evaluation of the setup accuracy of a stereotactic radiotherapy head immobilization mask system using kV on-board imaging", Accepted for publication in Journal of Applied Clinical Medical Physics 11 (2010) 26-37

Tania de La Fuente Herman, Maria T. Vlachaki, Terence S. Herman, Kerry Hibbitts, Julie A. Stoner and Salahuddin Ahmad, "Stereotactic Body Radiation Therapy (SBRT) and Respiratory Gating in Lung Cancer: Dosimetric and Radiobiological Considerations", Journal of Applied Clinical Medical Physics 11 (2010) 158-169

KR Hibbitts, DE Raeside, GD Adams, CR Bogardus, Jr., "Discriminant Analysis in Radiation Therapy Treatment Planning for Carcinoma of the Cervix Uteri." Proceedings of the 15th Hawaii International Conference on Systems Sciences, pp. 12-21, 1982

KR Hibbitts, DE Raeside, GD Adams, CR Bogardus, Jr., "A Primer on Time-Dose Fractionation for Radiation Therapy of Carcinoma of the Cervix Uteri." Radiologic Technology, (53:1, pp. 19-23), Jul/Aug 1981

KR Hibbitts, MP Miller, DE Raeside, CR Bogardus, Jr., "Partial Tolerance and Time Dose Fractionation Values for Common External Beam Radiation Therapy Schedules." Radiologic Technology, (52:5, pp. 533-542), 1981

KR Hibbitts, DE Raeside, GD Adams, CR Bogardus, Jr., BA Darrow. "Optimal Radiotherapy Treatment Planning for Carcinoma of the Cervix Uteri." Radiology, (138:1, pp. 215-217), Jan 1981

C. Teaching Experience

University of Oklahoma Health Sciences Center
College of Allied Health
Department of Radiologic Technology
RLTN 4660 – Advanced Clinical Radiation Therapy
Fall 1984, Spring 1998

University of Oklahoma Health Sciences Center
College of Allied Health
Department of Radiologic Technology
RLTN 4440 – Computer Applications in Radiation Therapy
Summer 1988, Summer 1997

University of Oklahoma Health Sciences Center
College of Allied Health
Department of Radiologic Technology
RLTN 4614 – Physics of Radiotherapy
Fall 1994, Fall 1995

University of Oklahoma Health Sciences Center
College of Allied Health
Department of Radiologic Technology
RLTN 4773 – Dosimetry and Instrumentation of Radiotherapy
Spring 1994

D. Papers Presented

K. Hibbitts, "Clinical Implementation of Respiratory Motion", New Therapy Technologies Session presentation at the Southwest Chapter Spring Meeting of the American Association of Physicists in Medicine, Oklahoma City, Oklahoma, March 29 - 31, 2012

Principal Investigator/Program Director (Last, First, Middle):

T. De La Fuente Herman, K. Hibbitts, T. Herman and S. Ahmad, "Evaluation of Pencil Beam Convolution and Anisotropic Analytical Algorithm in Stereotactic Lung Irradiation", Poster presentation at the 53rd Annual Meeting of the American Association of Physicists in Medicine (AAPM) and 2011 Joint AAPM/COMP meeting, Vancouver, B. C., Canada July 31- Aug 04, 2011, SU-E-Exhibit Hall-759, Medical Physics, Vol. 38, No.6, June 2011 page 3665

S. Rana, C. Cheng, K. Hibbitts and S. Ahmad, "Dosimetric Evaluation with Heterogeneity in Eclipse Treatment Planning Dose Calculation Algorithms", Poster presentation at the 53rd Annual Meeting of the American Association of Physicists in Medicine (AAPM) and 2011 Joint AAPM/COMP meeting, Vancouver, B. C., Canada July 31- Aug 04, 2011, SU-E-Exhibit Hall-736, Medical Physics, Vol. 38, No.6, June 2011 page 3660

I. Ali, J. Tubbs, K. Hibbitts, T. Langley, O. Algan, S. Thompson, T. Herman and S. Ahmad, "Evaluation of setup accuracy of a stereotactic radiotherapy head immobilization mask using kV on- board imaging", Poster presentation at the 51st Annual American Association of Physicists (AAPM) meeting, Anaheim, California, July 26- 30, 2009, Session SU-FF-T-550, Medical Physics, Vol. 36, No. 6, June 2009, p 2651

T. De La Fuente Herman, T. Herman, K. Hibbitts, M. Vlachaki, J. Stoner and S. Ahmad, "A Dosimetric Comparison as a Function of Respiration and Tumor Location in Stereotactic Body Radiation Therapy Treatment Plans for Patients with Non Small Cell Lung Cancer", Poster presentation at the 51st Annual American Association of Physicists (AAPM) meeting, Anaheim, California, July 26- 30, 2009, Session SU-FFT-570, Medical Physics, Vol. 36, No. 6, June 2009, p 2655

Salahuddin Ahmad, Tania De La Fuente Herman, Kerry Hibbitts, Julie Stoner, Maria T. Vlachaki and Terence Herman, "Radiobiologic Treatment Evaluation in Conventionally Fractionated and Stereotactic Body Radiation Therapy", Invited Presentation at the 34th Annual AAMD meeting, Scottsdale, Arizona, June 21-25, 2009, Abstract Book, page 89

Tania De La Fuente Herman, Terence Herman, Kerry Hibbitts, Maria Vlachaki, Julie Stoner and Salahuddin Ahmad, Radiobiologic "Evaluations of Stereotactic Body Radiation Therapy (SBRT) Treatment Plans in Patients with Non Small Cell Lung Cancer (NSCLC)", Accepted as a finalist for the Young Investigator Competition during the 26th Annual meeting of the American College of Medical Physics (ACMP) to be held in Virginia Beach, VA from May 2-5, 2009. Journal of Applied Clinical Medical Physics Vol. 10 (3) (2009) 223-224

S. Ahmad, T. D. L. F. Herman, K. Hibbitts, J. Stoner, M.T. Vlachaki, "Radiobiologic Treatment Plan Evaluation in Conventional and Stereotactic Body Radiation Therapy", Invited presentation at the International Conference on Medical Physics, Radiation Protection and Radiobiology (ICMPPR2K9), Jaipur, India, 11-13 February, 2009 Abstract I-14

"Accelerated Hypo-fractionated Stereotactic Thoracic Radiation Therapy (SBRT)"
University of Oklahoma Medical Center Radiation Oncology CMD Continuing Education
Oklahoma City, OK, 19 April 2008

"HDR Remote Afterloading with a MicroSelectron"
Oklahoma Society of Radiologic Technology Annual Meeting
Oklahoma City, OK, April 1991

"Brachytherapy"
Oklahoma Society of Radiologic Technology Annual Meeting
Oklahoma City, OK, April 1990

Principal Investigator/Program Director (Last, First, Middle):

“Optimal Radiation Therapy Treatment Planning for Carcinoma of the Cervix Uteri”
American Association of Physicists in Medicine
Annual Meeting, New Orleans, LA, 1-5 August 1982

“The Application of Discriminant Analysis to Data Associated with Radiation Therapy of Carcinoma of the Cervix Uteri”
Southwest Chapter of the American Association of Physicists in Medicine Annual Meeting
Oklahoma City, OK, 3-4 October 1980

“Optimal Radiotherapy Treatment Planning for Carcinoma of the Cervix Uteri”
Southwest Chapter of the American Association of Physicists in Medicine Annual Meeting
San Antonio, TX, 28-29 March 1980

“Optimal Radiotherapy Treatment Planning for Carcinoma of the Cervix Uteri”
Oklahoma Academy of Sciences Annual Meeting
Edmond, OK, 8-9 November 1979

“A Computer Program for the Determination of the NSD in Treatment of Carcinoma of the Cervix Uteri”
Oklahoma Academy of Sciences Annual Meeting
Stillwater, OK, 2-3 November 1978

“Determination of the Cumulative Radiation Effect of Multiphase Treatment Regimes”
Southwest Chapter of the American Association of Physicists in Medicine
Tulsa, OK, 13 October 1978

E. Clinical Activities

Daily, monthly, and annual quality assurance on all accelerators

Initial and weekly quality assurance for all patient charts

Calculation and in vivo dose verification of total body treatments

Quality assurance and supervision of treatment delivery for BrainLAB, Image Guided Radiation Therapy (IGRT), Stereotactic Body Radiation Therapy (SBRT), and High Dose Rate (HDR) treatments