

**NAME:**

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**CONTACT:**

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**EDUCATION:**

Iowa State University, Ames, Iowa.  
Bachelor of Science Degree in Nuclear Engineering  
1983

University of Tennessee, Knoxville, Tennessee.  
Master of Science Degree in Reactor Physics  
1986

University of South Dakota, Vermillion, South Dakota.  
Doctor of Medicine Degree  
1990

McKenna Hospital, Sioux Falls, South Dakota.  
Transitional Medical Internship  
1991

The Johns Hopkins Hospital, Baltimore, Maryland.  
Radiation Oncology Residency  
1994

**ACADEMIC APPOINTMENTS:**

Clinical Assistant Professor  
Indiana University School of Medicine  
Department of Radiation Oncology  
July 1994 – July 1998

Assistant Professor  
Indiana University School of Medicine  
Department of Radiation Oncology  
July 1998 – June 2003

Associate Professor  
Indiana University School of Medicine  
Department of Radiation Oncology  
July 2003 – July 2004

Professor of Radiation Oncology  
The University of Texas Southwestern Medical Center  
Department of Radiation Oncology  
September 2004 – present

Professor of Neurosurgery (secondary appointment)

The University of Texas Southwestern Medical Center  
Department of Neurosurgery  
September 2008 – present

**HOSPITAL APPOINTMENTS:**

Indiana University Medical Center, Indianapolis, Indiana, 1994-2004  
Riley Hospital for Children, Indianapolis, Indiana, 1994-2004  
Wishard Memorial Hospital, Indianapolis, Indiana, 1994-2004  
Richard Roudebush Veterans Affairs Medical Center, Indianapolis, Indiana, 1994-2004  
Johnson Memorial Hospital, Franklin, Indiana, 2002-2004  
St. Paul University Hospital, Dallas, Texas, 2004-2014  
Zale-Lipshy Hospital, Dallas, Texas, 2004-present  
Parkland Memorial Hospital, Dallas, Texas, 2004-present  
Children's Medical Center, Dallas, Texas, 2006-present  
William P. Clements Jr. University Hospital, Dallas, Texas, 2014-present

**OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS:**

Co-Director  
Indiana Lions Gamma Knife Center  
1997-2004

Co-Director  
Multidisciplinary Neuro-Oncology Program  
Indiana Cancer Pavilion  
1994-2004

Vice-President  
University Radiation Oncology Associates, Inc.  
Indianapolis, IN  
2000-2004

Director  
Annette Simons Stereotactic Center  
The University of Texas Southwestern Medical Center  
Dallas, TX  
2004 – present

Vice-Chairman for Clinical Affairs  
Department of Radiation Oncology  
The University of Texas Southwestern Medical Center  
Dallas, TX  
2004 – present

Director of Clinical Research  
Department of Radiation Oncology  
The University of Texas Southwestern Medical Center  
Dallas, TX  
2004-2014

Effie Marie Cain Distinguished Chair in Cancer Therapy Research  
The University of Texas Southwestern Medical Center  
Dallas, TX  
September 2005 – present

Clinical Director  
 Department of Radiation Oncology  
 The University of Texas Southwestern Medical Center  
 Dallas, TX  
 April 2014 – present

**SPECIALTY BOARD STATUS:**

1991 National Board of Medical Examiners-Board Certified Physician  
 1995 American Board of Radiology-Board Certified in Radiation Oncology  
 2001 American Board of Radiology-Board Re-certified in Radiation Oncology  
 2012 American Board of Radiology-Board Re-certified in Radiation Oncology

**LICENSURE AND CERTIFICATION:**

Federal Drug Enforcement Agency - Controlled Substance Registration  
 Indiana Health Professions Bureau - Licensed Physician  
 Karolinska Hospital, Stockholm, Sweden - Certification of Training for Stereotactic Body radiotherapy  
 University of Pittsburgh, Pittsburgh, PA - Certification of Training for Gamma Knife Radiosurgery  
 Novoste Corporation, Norcross, GA - Certification of Training for Coronary Endovascular Radiotherapy Using the  
 Novoste Strontium SourceTrain  
 Novoste Corporation, Norcross, GA - Certification of Training for Arterio-venous Shunt Endovascular Radiotherapy  
 Using the Novoste Strontium SourceTrain  
 Accuray Corporation, Sunnyvale, CA – Certification of Training for Cyberknife radiosurgery  
 Princess Margaret Hospital, Toronto, ON – Certification of Training for Image Guided Radiation Therapy  
 Texas Department of Public Safety - Controlled Substances Registration  
 Texas Board of Medical Examiners – Licensed Physician  
 Xcision Medical Systems, LLC – Certification of Training for Gammapod Applications

**PROFESSIONAL ORGANIZATIONS:**

American College of Radiology (ACR)  
 Practice Guidelines Task Force  
 Stereotactic Body Radiation Therapy Guidelines Development Committee  
 Image Guided Radiation Therapy Working Group  
 American Board of Radiology (ABR)  
 Written Board Item Author  
 Oral Board Examiner  
 Self Assessment Module (SAM) Developer  
 American Society for Therapeutic Radiology and Oncology (ASTRO)  
 Refresher Course Faculty  
 Presidential Course Faculty  
 Emerging Technology Committee  
 Hoosier Oncology Group  
 Radiation Therapy Committee 1994-2004  
 Indiana Society of Radiation Oncology  
 Secretary/Treasurer 1998  
 President-elect 1999  
 President 2000-2001  
 Radiation Oncology Academy of Indiana  
 President 2001-2003  
 Board Member 2003-2004  
 The Children's Cancer Group (CCG)  
 Radiation Oncology Committee  
 Neuro-Oncology Committee  
 The Children's Oncology Group (COG)  
 National protocol committee for A09712, ADVL0011, and ACNS0331

Full voting member  
 Society for Neuro-Oncology  
 Radiation Therapy Oncology Group  
 Advanced Technology Integration (formerly Image Guided) Committee  
 Co-Chair for Stereotactic Radiotherapy  
 Lung Committee  
 National protocol committee for 0236, 0618, 0631, 0813, 0915, and 1021  
 American College of Surgeons Oncology Group  
 National protocol committee for Z4099  
 Texas State Board of Medical Examiners  
 Professional Review Consultant  
 Texas Radiological Society – Radiation Oncology  
 Member at Large (officer) 2006  
 Secretary-Treasurer 2006-2007  
 President 2008-2009  
 Annual meeting faculty

#### **HONORS AND AWARDS:**

1989 Alpha Omega Alpha  
 1996 Who's Who in Medicine and Healthcare  
 2000 National Registry of Who's Who (Lifetime Member)  
 1998-2016 The Best Doctors in America  
 2010 Roger Potish Memorial Lectureship, University of Minnesota, Minneapolis, MN  
 2010 Alon Dembo Memorial Lectureship, Sunnybrook Odette Cancer Centre, Toronto, Ontario, Canada  
 2010 Bruell Lecture Award, Cleveland Clinic, Cleveland, OH  
 2010 5<sup>th</sup> Rebecca Allen Lectureship, The Johns Hopkins Hospital, Baltimore, MD  
 2011 Morton Kligerman Award Lecture, University of Pennsylvania, Philadelphia, PA  
 2014 Staff Appreciation Award, Department of Radiation Oncology, UTSW  
 2014 George Edlestyn Lecture Award, Royal College of Radiologists, Liverpool, England  
 2016 Fellow, American College of Radiology  
 2018 Fellow, American Society for Radiation Oncology

#### **COMMUNITY SERVICE:**

1998-2003 Tribe Assistant, Indian Guides, YMCA  
 2004-2007 Zionsville Presbyterian Church, Mission trip to Collosio, Mexico  
 2005-2006 Treasurer, Westlake, TX, Tree City USA Committee  
 2005-2006 Planning Committee, Westlake, TX, Arbor Day  
 2006-2008 Board of Aldermen (elected), Westlake, TX  
 2006-2008 School Board of Trustees (elected), Westlake, TX

#### **TEACHING ASSIGNMENTS:**

##### **1.) GRAND ROUNDS AND VISITING**

##### **PROFESSORSHIPS**

“Dose-Volume Statistics: Applications in Stereotactic Radiosurgery”

December 3, 1994

Neurosurgery Grand Rounds, Indiana University Medical Center  
 Indianapolis, IN

Indianapolis, IN

“Penile Cancer: Applications of Radiation Therapy”

January 19, 1995

Joint Urological Oncology Rounds, Indiana University Medical Center  
 Indianapolis, IN

“Radiation Therapy for Soft Tissue Sarcomas”

December 17, 1994

General Surgery Grand Rounds, Indiana University Medical Center

“New and Innovative Techniques for Management of Brain Tumors”

February 16, 1995

Combined Medicine and Pediatric  
Hematology/Oncology Rounds  
Riley Children's Hospital  
Indianapolis, IN

"Biological Basis of Radiation Therapy"  
November 11, 1995  
Neurosurgery Grand Rounds, Indiana University  
Medical Center  
Indianapolis, IN

"Biological Basis of Radiation Therapy Related to  
Head and Neck Cancer"  
February 12, 1996  
Otolaryngology, Head and Neck Surgery Clinical  
Rounds, Indiana University Medical Center  
Indianapolis, IN

"Organ and Function Sparing Approaches Using  
Radiotherapy for Oral Cancers"  
April 12, 1996  
Oral Cancer and Precancer Symposium: Recognition  
and Treatment  
Indiana University School of Dentistry  
Indianapolis, IN

"Gamma Knife Radiosurgery as Treatment for  
Endocrinopathies and Tumor Growth from Pituitary  
Adenomas"  
September 23, 1998  
Endocrinology Grand Rounds, Indiana University  
Medical Center  
Indianapolis, IN

"Gamma Knife and Other New Developments in  
Radiation Oncology"  
October 5, 1998  
Medical Oncology Fellows Lecture Series, Indiana  
University Medical Center  
Indianapolis, IN

"Gamma Knife"  
January 26, 1999  
Nuclear Medicine Grand Rounds, Indiana University  
Medical Center  
Indianapolis, IN

"Choroidal Melanoma: A New Indication for the  
Gamma Knife?"  
April 21, 1999  
Ophthalmology Grand Rounds, Indiana University  
Medical Center  
Indianapolis, IN

"Principles and Practice of Modern Radiation  
Therapy"  
January 12, 2000  
Plastic Surgery Grand Rounds, Indiana University  
Medical Center  
Indianapolis, IN

"Stereotactic Body Radiotherapy: Clinical  
Indications"  
February 7, 2001  
Otolaryngology, Head and Neck Surgery Clinical  
Rounds, Indiana University Medical Center  
Indianapolis, IN

"Extracranial Stereotactic Radioablation: Biological  
Basis and Early Results of a New Therapeutic  
Paradigm"  
March 29, 2002  
Radiation Oncology Clinical Rounds, University of  
Colorado Cancer Center  
Denver, CO

"Stereotactic Radioablation of Lung Tumors"  
May 31, 2002  
I.U. Cancer Center Grand Rounds, Indiana University  
Medical Center  
Indianapolis, IN

"Research in Radiation Oncology"  
Indiana University Cancer Center Communications  
Forum  
November 19, 2003  
Indianapolis, IN

"Stereotactic Body Radiation Therapy in Lung  
Cancer: Clinical and Functional Outcome"  
Indiana University Cancer Center Experimental  
Therapeutics Research Forum  
January 20, 2004  
Indianapolis, IN

"Indications for Radiosurgery"  
March 9, 2004  
Medical Oncology Fellows Lecture Series, Indiana  
University Medical Center  
Indianapolis, IN

"Evolution of Stereotactic Radiation Delivery"  
June 2004  
Resident's Research Day, Indiana University Medical  
Center  
Indianapolis, IN

“Stereotactic Body Radiation Therapy for Non-invasive Ablation of Lung Cancer”

October 13, 2004

St. Paul Hospital Tumor Board

Dallas, TX

“Developing an Image Guided Radiotherapy Program”

November 29, 2004

Princess Margaret Hospital

Toronto, ON, Canada

December 14, 2004

Visiting Professor

Kyoto University Graduate School of Medicine

Kyoto, Japan

February 25, 2005

Visiting Professor

Baylor College of Medicine

Houston, TX

May 12, 2005

Visiting Professor

Yale University Hospital

New Haven, CT

June 3, 2005

Visiting Professor

The Johns Hopkins Hospital

Baltimore, MD

June 10, 2005

Visiting Professor

University of Ottawa

Ottawa, Ontario, Canada

June 27, 2005

Visiting Professor

Vanderbilt University

Nashville, TN

October 7, 2005

Visiting Professor

State University of New York Upstate Medical

University

Syracuse, NY

“Ablative Radiotherapy Strategies”

October 10, 2005

Simmons Comprehensive Cancer Center

Annual Scientific Retreat

Dallas, TX

“Surgery without a Knife”

January 25, 2006

General Surgery Grand Rounds, University of Texas

Southwestern Medical Center

Dallas, TX

April 5, 2006

Visiting Professor

State University of New York – Stonybrook

Stonybrook, NY

“Non-Invasive Ablation in the Brain and Body”

May 3, 2006

Nursing Grand Rounds, University of Texas

Southwestern Medical Center

Dallas, TX

May 16, 2006

Visiting Professor

University of Maryland School of Medicine

Baltimore, MD

June 15, 2007

Visiting Professor

Ohio State University

Columbus, OH

British Columbia Cancer Agency

Visiting Professor

December 15, 2007

Vancouver, BC, Canada

“Stereotactic Radiation for Pituitary Tumors”

January 16, 2008

Endocrinology Grand Rounds, University of Texas

Southwestern Medical Center

Dallas, TX

February 27, 2008

Visiting Professor

Duke University

Durham, NC

April 3, 2008

Visiting Professor

Mayo Clinic

Rochester, MN

May 9, 2008

Visiting Professor

McMasters University

Hamilton, ON, Canada

“Treatment Considerations for Angiosarcoma of Skin”

June 12, 2008

Dermatology Grand Rounds, University of Texas Southwestern  
Dallas, TX

December 5, 2008

Visiting Professor  
Albert Einstein College of Medicine  
New York, NY

December 18, 2008

Visiting Professor  
University of Michigan  
Ann Arbor, MI

April 15, 2009

Visiting Professor  
University of Utah  
Salt Lake City, Utah

April 25, 2009

Visiting Professor  
Karolinska Hospital  
Stockholm, Sweden

December 13, 2009

Visiting Professor  
Colorado State University School of Veterinary Sciences  
Ft. Collins, CO

February 10, 2010

Visiting Professor  
Emory University  
Atlanta, GA

March 22, 2010

Visiting Professor  
National Taiwan University Hospital  
Taipei, Taiwan

May 12, 2010

Visiting Professor  
University of Toronto Bayview  
Toronto, ON

May 27, 2010

Visiting Professor  
University of Minnesota  
Minneapolis, MN

June 9, 2010

Visiting Professor

University of Texas MD Anderson Cancer Center  
Houston, TX

June 11, 2010

Visiting Professor  
Tufts University  
Boston, MA

October 8, 2010

Visiting Professor and Annual Bruell Lecture  
Cleveland Clinic Foundation  
Cleveland, OH

November 17, 2010

Visiting Professor  
The Johns Hopkins Hospital  
Baltimore, MD

December 9, 2010

Visiting Professor  
Memorial Sloan Kettering Cancer Center  
New York, NY

February 3-4, 2011

Visiting Professor  
Stanford University  
Palo Alto, CA

April 1, 2011

Visiting Professor  
Virginia Commonwealth University  
Richmond, VA

April 12, 2011

Visiting Professor  
Harvard University  
Boston, MA

June 9-10, 2011

Visiting Professor  
University of California at Davis  
Sacramento, CA

June 30-July 1, 2011

Visiting Professor  
Washington University  
St. Louis, MO

September 27-28, 2011

Visiting Professor  
University of Pennsylvania  
Philadelphia, PA

December 15-16, 2011  
Visiting Professor  
Duke University  
Durham, NC

May 29-31, 2012  
Visiting Professor  
University of Colorado  
Aurora, CO

October 5-6, 2012  
Visiting Professor  
University of Iowa  
Iowa City, IA

April 25-26, 2013  
Visiting Professor  
University of Miami  
Miami, FL

May 26-28, 2013  
Visiting Professor  
University of Pittsburgh (both Departments of  
Radiation Oncology and Cardiothoracic Surgery)  
Pittsburgh, PA

February 19-20, 2014  
Visiting Professor  
Albert Einstein College of Medicine  
New York, NY

April 24-25, 2014  
Visiting Professor  
Columbia University  
New York, NY

June 12-13, 2014  
Visiting Professor  
Baylor College of Medicine  
Houston, TX

May 19-20, 2016  
Visiting Professor  
Vanderbilt University  
Nashville, TN

September 2, 2016  
Cancer Center Grand Rounds  
Simmons Comprehensive Cancer Center  
University of Texas Southwestern  
Dallas, TX

October 13-14, 2016  
Visiting Professor

Thomas Jefferson University  
Philadelphia, PA

November 9, 2016  
Pediatrics Grand Rounds  
Children's Hospital of Dallas  
Dallas, TX

June 8-9, 2017  
Visiting Professor  
New York University  
New York, NY

August 1-2, 2017  
Visiting Professor  
University of Arkansas  
Little Rock, AK

December 14, 2017  
Visiting Professor  
University of Kansas  
Kansas City, KS

May 9, 2018  
Visiting Professor  
Rutgers Cancer Institute of New Jersey  
New Brunswick, NJ

June 1, 2018  
Visiting Professor  
Cleveland Clinic  
Cleveland, OH

October 5, 2018  
Visiting Professor  
University of Vermont  
Burlington, VT

October 10, 2018  
Visiting Professor  
Emory University  
Atlanta, GA

November 2, 2018  
Visiting Professor  
University of North Carolina  
Chapel Hill, NC

November 13, 2018  
Visiting Professor  
Cedars Sinai Hospital  
Los Angeles, CA

## 2.) RADIATION ONCOLOGY DIDACTIC LECTURES

CNS Radiotherapy (eight 1-hr lectures given yearly)

1994-1996, 1998, 2002, 2005

Head and Neck Radiotherapy (eight 1-hr lectures given yearly)

1994, 1997

Pediatric Radiotherapy (eight 1-hr lectures given yearly)

1998, 1999, 2002

Soft Tissue and Bone Tumor Radiotherapy (eight 1-hr lectures given yearly)

1994-1998, 2002

Lung Cancer Radiotherapy (eight 1-hr lectures)

2000

GI Malignancies (eight 1-hr lectures)

2001

Joint Head and Neck/Radiotherapy Conference (Nine monthly 1-hr lectures organized or given yearly)

1994, 1995, 1996, 1997

Clinical Research Office Didactics

2004-present

Radiosurgery, CNS Tumors

2005-present

Stereotactic Body Radiation Therapy

2004-present

## 3.) ORGANIZED SYMPOSIA

1998-2001 Indiana Society for Radiation Oncology Annual Educational Symposia

2002-2003 Radiation Oncology Academy of Indiana

2002-2007 Stereotactic Body Radiation Therapy International Symposia

2006 International Association for the Study of Lung Cancer, Workshop on Stereotactic Radiation Therapy and Surgery for Stage I Non-small Cell Lung Cancer

2009-present Stereotactic Body Radiation Therapy training course (given quarterly)

## 4.) INVITED PRESENTATIONS

“Stereotactic Radiosurgery”

September 11, 1994

Lions of Indiana Cancer Control Fund

Indiana University and Purdue University at Indianapolis, Indianapolis, IN

“Fractionated Radiotherapy in the Management of Posterior Skull Base Tumors”

September 12, 1996

Skull Base 1996 - The Posterior Skull Base

Center for Skull Base Surgery

Indiana University Medical Center, Indianapolis, IN

“Radiation Therapy in the 1990’s”

March 1, 1995

Parkview Memorial Hospital Spring Oncology Seminar

Parkview Memorial Hospital, Fort Wayne, IN

“Radiation Therapy for Central Nervous System Tumors: Exploring Applications and Limitations of Technology”

March 14, 1997

Indiana Society of Radiological Technologists - State Convention

Airport Holiday Inn, Indianapolis, IN

“Radiation Therapy for Skull Base Tumors: Exploring Applications and Limitations of Technology”

October 12, 1995

Skull Base 1995 - An Interdisciplinary Approach and Surgical Dissection

Center for Skull Base Surgery

Indiana University Medical Center, Indianapolis, IN

“Gamma Knife Radiosurgery Update”

September 14, 1997

Lions Cancer Control Fund of Indiana, Inc. - Annual Seminar

Emerson Hall, Indiana University School of  
Medicine, Indianapolis, IN

“Safe and Effective Treatment of Cavernous Sinus  
Tumors: Triumphs of Modern Radiotherapy”  
September 18, 1997

Skull Base 1997

Center for Skull Base Surgery  
Indiana University Medical Center, Indianapolis, IN

“Gamma Knife Radiosurgery”

September 20, 1997

Indiana University Physicians Advisory Council -  
Specialty Care  
University Place Hotel and Conference Center,  
Indianapolis, IN

“Stereotactic Radiosurgery”

December 3, 1997

Clarian Health Continuing Medical Education -  
Radiographers and Radiation Therapists  
Indiana University Medical Center, Indianapolis, IN

“3-D Conformal Radiotherapy in the Management of  
Posterior Fossa Brain Tumors”

April 23, 1998

The Children’s Cancer Group Spring Meeting  
Westin Galleria & Oaks, Houston, TX

“Clinical Experience Using the Render-Plan 3-D  
Radiotherapy Treatment Planning System”

September 3, 1998

3<sup>rd</sup> International Symposium: 3-D Treatment  
Planning and Conformal Therapy  
Chapel Hill, NC

“Gamma Knife Radiosurgery as Treatment for  
Endocrinopathies and Tumor Growth from Pituitary  
Adenomas”

September 12, 1998

Indiana Endocrine Society  
Westin Hotel, Indianapolis, IN

“Gamma Knife Update”

September 13, 1998

Indiana Lions Cancer Control Committee  
Indiana University Medical Center, Indianapolis, IN

“Conformal Radiation Therapy in the Treatment of  
Central Skull Base Tumors”

September 25, 1998

Skull Base 1998

Center for Skull Base Surgery  
Indiana University Medical Center, Indianapolis, IN

“Gamma Knife Radiosurgery”

October 1, 1998

Westfield Lions Club  
Westfield, IN

“Gamma Knife Radiosurgery for Brain Metastases”

October 7, 1998

Bloomington Hospital Grand Rounds  
Bloomington, IN

“Minimally Invasive Treatments for CNS Problems:  
The Gamma Knife Experience”

November 3, 1998

Mini Medical School Symposium  
Indiana University Medical Center, Indianapolis, IN

“Gamma Knife”

November 6, 1998

Indiana State Cancer Registrars Convention  
Holiday Inn at the Towers, Indianapolis, IN

“Current Issues and Controversies in the  
Management of Seminoma of the Testes”

February 9, 1999

Kukuna-o-ka-la Radiation Oncology Conference  
Hilton Waikoloa, Hawaii

“Gamma Knife Radiosurgery for Tumors Metastatic  
to the Brain”

March 3, 1999

St. Mary’s Hospital Grand Rounds  
Evansville, IN

“Gamma Knife Radiosurgery for Tumors Metastatic  
to the Brain”

April 28, 1999

St. Elizabeth’s Hospital Grand Rounds  
Lafayette, IN

“Management of Head and Neck Sarcoma”

October 17, 1999

Radiotherapy Rounds  
Chiang Mai University Hospital, Chiang Mai,  
Thailand

“Juvenile Angiofibroma”

October 18, 1999

Radiotherapy Rounds  
Chiang Mai University Hospital, Chiang Mai,  
Thailand

“Radiotherapy Treatment Planning and Optimization  
for Head and Neck Cancers”

- October 20, 1999  
5<sup>th</sup> National Cancer Conference  
National Cancer Institute (of Thailand)  
Bangkok, Thailand
- “Unresectable Head and Neck Cancer: Management Strategies Including Chemotherapy”  
October 20, 1999  
5<sup>th</sup> National Cancer Conference  
National Cancer Institute (of Thailand)  
Bangkok, Thailand
- “Pediatric Radiation Oncology”  
January 18, 2000  
Local Chapter of Association of Pediatric Oncology Nurses  
Riley Hospital for Children, Indianapolis, IN
- “Stereotactic Body Radiotherapy: Biological Basis and Preliminary Clinical Results”  
April 8, 2000  
Indiana Society of Radiological Technologists  
Marriott Hotel, Indianapolis, IN
- "Advances in Radiotherapy Treatment of Pediatric Malignancy"  
October 20, 2000  
Indiana Association of Pediatric Oncology Nurses  
Conner Prairie, Fishers, IN
- "Improving Outcome in Patients with Brain Metastases by Integrating Gamma Knife into the Radiation Oncology Practice"  
October 21, 2000  
Elekta ASTRO Symposium on Conformal Radiotherapy (IMRT) and Gamma Knife Surgery  
Boston, MA
- "Study of Stereotactic Body Radiotherapy in Medically Unresectable Patients with Stage I Non-small Cell Lung Cancer"  
October 21, 2000  
Elekta ASTRO Symposium on Conformal Radiotherapy (IMRT) and Gamma Knife Surgery  
Boston, MA
- "Considerations for Volume-Based Radiotherapy Treatment Planning for the Posterior Fossa"  
November 2, 2000  
Children's Oncology Group, Fall Meeting  
Phoenix, AZ
- “Lung Cancer: A Brief Introduction”  
November 18, 2000
- Indiana Society for Radiation Oncology  
University Place Hotel, Indianapolis, IN
- “Brain Metastases: Current Status”  
December 14, 2000  
Plymouth Regional Hospital Tumor Board  
Plymouth, IN
- “Stereotactic Irradiation of Small Lung Tumors”  
June 19, 2001  
State of the Science for Lung Cancer  
National Cancer Institute  
Bethesda, MD
- “Stereotactic Irradiation of Tumors”  
June 26, 2001  
Health Physics Society – Hoosier Chapter  
Lilly Corporate Center  
Indianapolis, IN
- “Stereotactic Radioablation for Early Stage Primary Non-small Cell Lung Cancer”  
June 30, 2001  
Radiation Therapy Oncology Group Semi-Annual Meeting  
Loews Philadelphia Hotel  
Philadelphia, PA
- “Extracranial Stereotactic Radioablation in Medically Inoperable Stage I NSCLC: A Phase I and II Study”  
Elekta ASTRO Stereotactic Body Frame Users Group Meeting  
October 5, 2001  
San Francisco, CA
- “Expanding your Radiation Oncology Practice with the Leksell Gamma Knife”  
Elekta ASTRO Symposium on Conformal Radiotherapy (IMRT) and Gamma Knife Surgery  
October 5, 2001  
San Francisco, CA
- “Evaluation and Management of Testicular Neoplasms”  
ASTRO Refresher Course  
October 6, 2001  
San Francisco, CA
- “Extracranial Stereotactic Radioablation: Results of the Indiana University Dose Escalation Trial in Early Stage Lung Cancer”  
1<sup>st</sup> Extracranial Stereotactic Radioablation Future Directions Symposium  
May 10, 2002  
Niagara Falls, Ontario

“Evaluation and Management of Testicular Neoplasms”

ASTRO Refresher Course

October 6, 2002

New Orleans, LA

“Extracranial Stereotactic Radioablation”

Harvard Deaconess/Beth Israel Hospitals

January 31, 2003

Boston, MA

“The Impact of Technology on Medical Practice: The Gamma Knife Experience”

Mini Medical School Symposium

February 25, 2003

Indiana University Medical Center, Indianapolis, IN

“Extracranial Stereotactic Radiosurgery and Radioablation: Ready for Prime Time?”

American College of Radiation Oncology Annual Meeting

February 28, 2003

Phoenix, AZ

“Rationale and Experience with Extracranial Stereotactic Radioablation in Specific Organ Systems”

Elekta Oncology Systems Users Conference 2003

May 30, 2003

Paradise Island, Bahamas

“Rationale for Radioablative Tumor Treatment Strategies in Various Organ Systems”<sup>2nd</sup> Extracranial Stereotactic Radioablation Future Directions Symposium

June 7, 2003

Halifax, Nova Scotia

“Conduct of Extracranial Stereotactic Radiation Therapy Delivery at Indiana University”

RTOG Semi-annual Meeting

June 29, 2003

Montreal, Quebec

“Extracranial Stereotactic Radioablation for Lung Tumors”

American College of Surgeons Oncology Group

Thoracic RFA Workshop

July 19, 2003

Durham, North Carolina

“Extracranial Stereotactic Radioablation: Results of a Phase I Study in Non-small Cell Lung Cancer”

ASTRO poster-presentation

October 20, 2003

Salt Lake City, Utah

“Novel Radiotherapeutic Approaches for Stage I Lung Cancer: Current Results, Therapeutic Issues, Plans for Research, and the Applicability to the Treatment of Screening Detected Tumors”

National Cancer Institute Joint Conference on Screening Detected Lung Cancer

November 1, 2003

Tokyo, Japan

“Stereotactic Body Radiation Therapy”

Scientech Club of Indiana

December 1, 2003

Indianapolis, Indiana

“Stereotactic Body Radiation Therapy for Lung Cancer”

Linac Radiosurgery 2003

December 13 2003

Orlando, Florida

“Realization of a Stereotactic Immobilization Device”

Varian Research Partners

January 30, 2004

Orlando, Florida

“Stereotactic Body Radiation Therapy: Indications and Clinical Results”

Fort Wayne Oncology Symposium

March 11, 2003

Fort Wayne, Indiana

“Stereotactic Body Radiation Therapy for Lung Cancer”

3<sup>rd</sup> Symposium on Concomitant Chemoradiotherapy

April 1, 2004

Dallas, Texas

“Update of Indiana University’s Experience with SBRT in Lung Cancer: Lessons Along the Way”

3<sup>rd</sup> Annual Conference on Stereotactic Body Radiation Therapy (SBRT)

May 22, 2004

Indianapolis, Indiana

“Dose Escalated Hypofractionated Stereotactic Radiation Therapy for Lung Cancer”

University of Heidelberg Medical Physics Research Symposium

September 18, 2004

Manheim, Germany

“Primary Radiotherapy for Stages I and II Non-small Cell Lung Cancer”  
9<sup>th</sup> Annual Perspectives in Thoracic Oncology  
October 2, 2004  
New York, New York

“Evaluation and Management of Testicular Malignancies”  
ASTRO Annual Meeting Refresher Course  
October 7, 2004  
Atlanta, Georgia

“Piecing Together the Puzzle on Prostate Cancer: IMRT, Proton Beam, and Brachytherapy Radiation”  
University of Texas Southwestern Urological Oncology Symposium  
October 23, 2004  
Dallas, Texas

“Treatment for the Early Stage Non-small Cell Lung Cancer Patient: Options for the Non-surgical Candidate”  
American College of Chest Physicians Annual Meeting  
October 25, 2004  
Seattle, Washington

“Radiobiological Considerations for Stereotactic Body Radiation Therapy for Lung Cancer”  
The 4<sup>th</sup> S. Takahashi Memorial International Workshop on 3-D Conformal Radiotherapy  
December 12, 2004  
Nagoya, Japan

“Stereotactic Body Radiation Therapy”  
January 6, 2005  
University of Colorado Radiation Oncology Refresher Course  
Denver, Colorado

“Radiation Therapy: Comparing Clinical Outcomes after New Generation Treatments including IMRT and Protons”  
11<sup>th</sup> Annual Paul C. Peters Urology Symposium  
January 21, 2005  
Dallas, TX

“Stereotactic Body Radiation Therapy: Growing Clinical Experience for Effective Tumor Ablation in Multiple Sites”  
2005 Elekta North American Oncology Users Conference  
May 12, 2005

Las Vegas, NV

“Stereotactic Radiosurgery for Thoracic Malignancy: The US Experience” (Presentation)  
“Stereotactic Body Radiation Therapy (SBRT) for Lung Cancer” (Discussant)  
11<sup>th</sup> World Conference on Lung Cancer  
July 4, 2005  
Barcelona, Spain

“Stereotactic Body Radiation Therapy for Ablation of Localized Tumors”  
Barrow Neurological Institute  
September 1, 2005  
Phoenix, AZ

“Recent Developments in Radiotherapy for Lung Cancer and Potential Impact of Elderly Patients”  
Geriatric Oncology Consortium  
September 15, 2005  
Washington, DC

“Stereotactic Body Radiotherapy: US Experience”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Presidential Course  
October 16, 2005  
Denver, CO

“Stereotactic Body Radiation Therapy”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Refresher Course  
October 17, 2005  
Denver, CO

“Initial Report of a Prospective Phase II Trial of Stereotactic Body Radiation Therapy for Patients with Medically Inoperable Stage I Non-small Cell Lung Cancer”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Oral Presentation  
October 19, 2005  
Denver, CO

“Radiotherapy in the Management of Brain Tumors”  
American Brain Tumor Association  
November 5, 2005  
Dallas, TX

“Understanding MRI’s”  
American Brain Tumor Association  
November 5, 2005  
Dallas, TX

- “Extra-Cranial Fractionated Stereotactic Radiosurgery Treatments”  
American Society for Therapeutic Radiology and Oncology  
Intensity Modulated Radiation Therapy Practicum  
February 10-11, 2006  
Dallas, TX
- “The North American Experience with STR in Lung Cancer”  
International Association for the Study of Lung Cancer  
February 18, 2006  
Maui, Hawaii
- “Technological Advances in Radiation Therapy – SBRT for Lung Cancer”  
4<sup>th</sup> Symposium on Combined Modality Therapy  
February 25, 2006  
Dallas, Texas
- “Novel Approaches for Inoperable Patients”  
Third Annual Winter Lung Cancer Conference  
March 11, 2006  
Aventura, Florida
- “Developing Multicenter Trials for SBRT”  
5<sup>th</sup> International Stereotactic Body Radiation Therapy State of the Science  
May 19, 2006  
Dallas, TX
- “Growing Clinical Evidence Supporting the Use of SBRT in the Treatment of Lung Cancer”  
American Society of Clinical Oncology Annual Meeting – Invited Educational Session  
June 2, 2006  
Atlanta, GA
- “Multi-center Experience with Stereotactic Body Radiation Therapy in Lung Cancer”  
3<sup>rd</sup> Acta Oncologica Symposium: Stereotactic Body Radiation Therapy  
June 15, 2006  
Copenhagen, Denmark
- “Adaptive Radiation Therapy for Lung Cancer”  
Radiation Therapy Oncology Group Semi-annual Meeting Educational Symposium  
June 23, 2006  
Toronto, Ontario, Canada
- “Ablative Radiotherapy Strategies”  
US Oncology Educational Symposia  
September 9, 2006  
Dallas, TX
- “Can Radiation Therapy Replace Surgery for Early Stage Lung Cancer?”  
Oncology Congress  
October 18, 2006  
New York, NY
- “Ablative Hypofractionation In Lung Cancer: The IU and UTSW Experience”  
Hypofractionation Symposium  
November 3, 2006  
Philadelphia, PA
- “Stereotactic Body Radiation Therapy: Clinical and Biological Perspectives”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Refresher Course 314  
November 6, 2006  
Philadelphia, PA
- “Radiation Therapy for Early Stage Lung Cancer”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Invited Panel  
November 7, 2006  
Philadelphia, PA
- “North American Experience with SBRT in Lung Cancer”  
International Atomic Energy Commission Conference on Implementing Radiotherapy for Lung Cancer in Developing Countries  
November, 26, 2006  
United Nations  
Vienna, Austria
- “Stereotactic Body Radiation Therapy for Prostate Cancer”  
12<sup>th</sup> Annual Paul C. Peters Urology Symposium  
January 26, 2007  
Dallas, Texas
- “Image Guided Radiotherapy for Lung Tumors”  
American Society for Therapeutic Radiology and Oncology Image Guided Therapy Practicum  
February 9, 2007  
San Francisco, CA
- “Image Guided Intensity Modulated Radiotherapy for Genito-urinary Tumors”  
American Society for Therapeutic Radiology and Oncology Image Guided Therapy Practicum  
February 9, 2007

San Francisco, CA

“Significant Limitations of the Linear Quadratic Model for Predicting Response from Hypofractionated Irradiation”

Cleveland Clinic SBRT and SRS International Symposium  
February 24, 2007  
Orlando, FL

“North American Experience with SBRT”  
Western Canada Lung Tumor Conference  
March 23, 2007  
Vancouver, BC

“Stereotactic Radiation for Lung Cancer”  
Texas State Radiological Society Annual Meeting  
April 14, 2007  
The Woodlands, TX

“Case Studies and Updates Using SBRT in Lung Cancer”  
3<sup>rd</sup> Annual Multidisciplinary Interactive Thoracic Oncology Conference  
April 20, 2007  
Seattle, WA

“Characterization of Ablation”  
5<sup>th</sup> International Symposia on Stereotactic Body Radiation Therapy  
May 17, 2007  
Dallas, TX

“Ablative Radiotherapy Strategies”  
39<sup>th</sup> San Francisco Radiation Oncology Conference/13<sup>th</sup> International Congress of Radiation Research  
July 8, 2007  
San Francisco, CA

“Application of Hypofractionation in the Lung”  
American Association of Physicists in Medicine Annual Meeting  
July 23, 2007  
Minneapolis, MN

“Ablative Radiotherapy for Lung Cancer”  
Meet the Professor Session 15  
12<sup>th</sup> World Conference on Lung Cancer  
September 5, 2007  
Seoul, Korea

“Image Guided Stereotactic Body Radiation Therapy”

Canadian Association of Radiation Oncology Annual Meeting

October 11, 2007  
Toronto, Ontario, Canada

“Organ Preserving, Non-invasive Ablation of Lung Cancer”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Presidential Course  
October 28, 2007  
Los Angeles, CA

“Stereotactic Body Radiation Therapy: Clinical and Biological Perspectives”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Refresher Course  
October 29 2007  
Los Angeles, CA

“Practice Guidelines for Stereotactic Body Radiation Therapy”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Refresher Course  
October 30, 2007  
Los Angeles, CA

“Toxicity Analysis of RTOG 0236 Using Stereotactic Body Radiation Therapy to Treat Medically Inoperable Early Stage Lung Cancer Patients”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Oral Presentation  
October 31, 2007  
Los Angeles, CA

“Ablative Radiotherapy as an Alternative to Invasive Surgical Procedures for Lung Cancer”  
Plaza Medical Center Lung Cancer Symposium  
October 28, 2007  
Ft. Worth, TX

“Radiation Oncology Update”  
University of Texas Southwestern Medical Center  
Internal Medicine Update  
November 15, 2007  
Dallas, TX

“Stereotactic Body Radiation Therapy as a Debulking or Ablative Treatment for Metastatic Cancer”  
National Institutes of Health Workshop on the Use of Radiotherapy in Eradicating Metastases  
December 5, 2007  
Washington, DC

“Update on the Toxicity Analysis of RTOG 0236 Using Stereotactic Body Radiation Therapy to Treat Medically Inoperable Early Stage Lung Cancer Patients”  
Radiation Therapy Oncology Group Semi-Annual Meeting, Publications Session  
January 19, 2008  
San Diego, CA

“Stereotactic Body Radiation Therapy for Prostate Cancer”  
2<sup>nd</sup> Annual Cleveland Clinic SBRT and SRS International Symposium  
February 24, 2008  
Orlando, FL

“Organ Preserving, Non-invasive Ablation of Lung Cancer”  
5<sup>th</sup> Symposium on Combined Modality Therapy  
April 17, 2008  
Dallas, Texas

“Stereotactic Body Radiation Therapy for Prostate Cancer”  
5<sup>th</sup> Symposium on Combined Modality Therapy  
April 18, 2006  
Dallas, Texas

“Toxicity Analysis of RTOG 0236 Using Stereotactic Body Radiation Therapy to Treat Medically Inoperable Early Stage Lung Cancer Patients”  
European Society for Medical Oncology  
April 23, 2008  
Geneva, Switzerland

“Ablative Radiotherapy Strategies”  
Panel on Hypofractionation  
American Radium Society Annual Meeting  
May 5, 2008  
Laguna Beach, CA

“Therapeutic Modalities for ‘Small’ Stage I Lung Cancers”  
Educational Session Invited Lecture  
American Society for Clinical Oncology (ASCO) Annual Meeting  
May 31, 2008  
Chicago, IL

“Stereotactic Body Radiation Therapy (SBRT) for Prostate Cancer”  
University of Cincinnati Genitourinary Symposium  
July 26, 2008  
Cincinnati, OH

“Organ Preserving, Non-Invasive Ablation of Lung Cancers”  
Roswell Park Lung Cancer Symposium 2008  
September 6, 2008  
Niagara-on-the-Lake, Ontario, Canada

“Advances in Radiotherapy for Locally Advanced Lung Cancer”  
IMEDEX Lung Cancer Meeting  
September 11, 2008  
Miami, FL

“Organ Preserving, Non-Invasive Ablation of Lung Cancers”  
University of Cincinnati Lung Cancer Symposium  
September 13, 2008  
Cincinnati, OH

“Stereotactic Body Radiation Therapy: Clinical and Biological Perspectives”  
American Society for Therapeutic Radiology and Oncology Annual Meeting Refresher Course  
September 25, 2007  
Boston, MA

“New Advances in Image-Guided Radiation Therapy”  
Targeted and Tailored Therapies in Hematology/Oncology – Loyola University  
October 11, 2008  
Chicago, IL

“Hypoxia and Radiation Therapy”  
In vivo Cancer Cellular and Molecular Imaging Symposia  
November 13, 2008  
Dallas, TX

“Extracranial Fractionated Stereotactic Radiosurgery Treatments”  
American Society for Therapeutic Radiology and Oncology Intensity Modulated Radiotherapy Practicum  
January 21-24, 2009  
Chandler, AZ

“Organ Preserving, Non-invasive Ablation of Lung Cancer”  
Society of Thoracic Surgeons  
January 26, 2009  
San Francisco, CA

“Normal Tissue Dose Constraints for  
Paucifractionated Ablative Dose Radiotherapy  
Delivery”  
Cleveland Clinic SBRT and SRS International  
Symposium  
February 22, 2009  
Orlando, FL

“Recent Advances in Biological Therapy and  
Radiosensitization”  
Society for Surgical Oncology  
March 5, 2009  
Phoenix, AZ

“SBRT for Prostate Cancer”  
Texas Radiological Society  
March 7, 2009  
Ft. Worth, TX

“SBRT for Thoracic Cancers: Recommendations for  
Patient Selection, Set-up, and Therapy”  
San Francisco Radiation Oncology Conference  
April 19, 2009  
San Francisco, CA

“Prospective Investigations of SBRT in North  
America”  
New York Roentgen Society  
May 10, 2009  
New York, NY

“Radiotherapy for Metastatic Cancer”  
American Society for Therapeutic Radiology and  
Oncology SCOPE III Meeting  
May 15, 2009  
Kiawah Island, SC

“Progress in Stereotactic Body Radiation Therapy”  
American Society for Therapeutic Radiology and  
Oncology IGRT/SBRT Symposium  
May 16-17, 2009  
Miami, FL

“Modern Radiotherapy for Small Lung Cancers  
Including Stereotactic Irradiation”  
American Society of Clinical Oncology (ASCO)  
Annual Meeting Invited Panel  
May 30, 2009  
Orlando, FL

“Image Guided Stereotactic Ablative Radiotherapy  
for Liver and Lung Tumors”  
Elekta 4<sup>th</sup> European User’s Conference  
June 6, 2009

Stresa, Italy

“Oligofractionated Stereotactic Irradiation:  
Biological and Clinical Observations”  
Association of Radiation Research  
June 24, 2009  
Glasgow, Scotland

“SBRT for Low and Intermediate Risk Prostate  
Cancer”  
“Image Guided and Motion Controlled Radiotherapy”  
“Radiobiology of Ablative Fractionated  
Radiotherapy”  
“SBRT for Early Stage Lung Cancer”  
“SBRT in Liver Metastases”  
Latin American Radiotherapy Conference  
July 3-4, 2009  
Sao Paulo, Brazil

“Oligofractionated Stereotactic Irradiation:  
Radiobiological Observations”  
Canadian Radiosurgical Society  
July 18, 2009  
St. John’s, Newfoundland

“RTOG 0236: Stereotactic Body Radiation Therapy  
(SBRT) to Treat Medically Inoperable Early Stage  
Lung Cancer Patients”  
Debate: “SBRT is the Standard of Care Therapy for  
Frail Patients with Stage I NSCLC”  
13<sup>th</sup> World Conference on Lung Cancer  
August 1, 2009  
San Francisco, CA

“Stereotactic Radiotherapy for Non-invasive Ablation  
of Lung Cancer”  
American College of Surgeons Annual Meeting  
October 13, 2009  
Chicago, IL

“Image Guided Stereotactic and Hypofractionated  
Radiotherapy”  
“Image Guided and Motion Controlled Radiotherapy”  
“Hypo- and Oligofractionated Irradiation:  
Radiobiological and Clinical Observations”  
“Prospective Investigations of Stereotactic Body  
Radiation Therapy”  
Chilean Radiotherapy Congress  
December 2-5, 2009  
Huilo Huilo, Chile

“Clinical Applications of High Dose  
Hypofractionated Radiotherapy”  
Gordon Research Conference

January 24-19, 2010  
Galveston, TX

“Radiation Therapy for Lung Cancer”  
“Stereotactic Body Radiation Therapy”  
General Thoracic Surgery Club  
March 11-13, 2010  
San Diego, CA

“SBRT for Inoperable Early Stage Lung Cancer”  
*JAMA* Oncology Theme Issue Press Conference  
National Press Club  
March 16, 2010  
Washington, DC

“SBRT for Lung Cancer: A Model for Evaluating the  
Impact of New Technology”  
Asian Oceanian Congress  
March 19, 2010  
Taipei, Taiwan

“Stereotactic Ablative Radiotherapy for Lung  
Cancer”  
Texas State Radiological Society Annual Meeting  
March 27, 2007  
The Woodlands, TX

“A Successful Comeback of Hypofractionated  
Radiotherapy”  
New Technologies and Applications in SRS/SBRT  
The Institute for Medical Education  
April 14, 2010  
New York, NY

“The Rediscovery of Oligo- and Hypofractionated  
Radiotherapy as Curative Cancer Treatment”  
Alon Dembo Memorial Lectureship  
The University of Toronto  
May 12, 2010  
Toronto, ON

“Lung: SBRT”  
“Lung Panel”  
“Vendor Workshop: Accuray Cyberknife”  
American Society for Therapeutic Radiology and  
Oncology IGRT/ SBRT/ IMRT Symposium  
May 14-16, 200  
Dallas, TX

“The Rediscovery of Oligo- and Hypofractionated  
Radiotherapy as Curative Cancer Treatment”  
The Roger Potish Memorial Lectureship  
The University of Minnesota  
May 26, 2010

Minneapolis, MN

“Are We Using Too Much Quality Assurance in  
Technology Trials?”  
National Institutes of Health Technology Trial Design  
Conference  
September 7-8, 2010  
Washington, DC

“Advances in Radiotherapy”  
Dallas Internists Club  
September 16, 2010  
Dallas, TX

“Implementation and Clinical Results of SBRT for  
Early Stage Lung Cancer”  
Royal College of Radiologists Annual Clinical  
Oncology Meeting  
September 23, 2010  
London, England

“Physicians Perspective of SBRT”  
Stanford SBRT Symposium  
October 1, 2010  
Palo Alto, CA

“Stereotactic Ablative Radiotherapy (SABR) for  
Lung Cancer”  
4<sup>th</sup> Portuguese Lung Cancer Congress  
October 15, 2010  
Aveiro, Portugal

“Patient Selection, Planning Priorities, and Plan  
Evaluation of SABR”  
American Society for Therapeutic Radiology and  
Oncology Annual Meeting  
October 31, 2010  
San Diego, CA

“Stereotactic Radiotherapy”  
Internal Medicine Rounds  
Presbyterian Hospital  
November 10, 2010  
Dallas, TX

“Curing Cancer Quickly with Stereotactic Ablative  
Radiotherapy (SABR)”  
5<sup>th</sup> Rebecca Allen Lectureship  
The Johns Hopkins Hospital  
November 17, 2010  
Baltimore, MD

“RTOG Studied in Stereotactic Ablative  
Radiotherapy for Lung Cancer”

American College of Surgeons Investigator Meeting  
January 8, 2011  
Atlanta, GA

“Steps and Stumbles in the Development of  
Stereotactic Ablative Radiotherapy for Stage I Lung  
Cancer”  
Society of Thoracic Surgeons  
Satellite Symposium  
January 31, 2011  
San Diego, CA

“Advances in Image Guided Hypofractionated  
Radiotherapy”  
Future of Radiation Medicine Clinical Leadership  
Symposium  
February 17, 2011  
Scottsdale, AZ

“Image Guided Hypofractionated and Stereotactic  
Radiotherapy: The End of the Reign of Protracted  
Fractionation Schedules”  
“SABR vs. Surgery for Lung Cancer”  
4<sup>th</sup> International Symposium on Stereotactic Body  
Radiation Therapy and Stereotactic Radiosurgery”  
February 24-27, 2011  
Orlando, FL

“Stereotactic Ablative Radiotherapy for Lung  
Cancer”  
North Shore Stereotactic Radiosurgery and  
Stereotactic Body Radiation Therapy Meeting  
March 4, 2011  
Hempstead, NY

“Management of Lung Cancer”  
American Society for Therapeutic Radiology and  
Oncology Spring Refresher Course  
April 8, 2010  
Chicago, IL

“Therapy for Early-stage (Stage I, II) Lung Cancer:  
Role of Radiation Therapy”  
American Society for Therapeutic Radiology and  
Oncology Cancer Imaging and Radiation Therapy  
Symposium  
April 30, 2011  
Atlanta, GA

“High Dose Fractionation”  
American Society for Therapeutic Radiology and  
Oncology Bench to Bedside and Back (3B) Research  
Forum  
May 1-2, 2011

Atlanta, GA

“Stereotactic Ablative Radiotherapy (SABR) for  
Treatment of Primary Cancer and Metastases”  
Spring Update on Cancer  
Wake Forest University  
May 13, 2011  
Las Vegas, NV

“The Rise and Fall of Conventionally Fractionated  
Radiotherapy”  
Mills Lecture  
Washington University  
July 1, 2011  
St. Louis, MO

“Clinical Radiotherapy: A *Backward* Evolution to  
Hypofractionation”  
“Rationale and Early Experience with Stereotactic  
Radiotherapy for Organ Confined Prostate Cancer”  
Dalla Chirurgia alla RadioChirurgia  
Monastero Santa Croce  
September 15-16, 2011  
Bocca di Magra, Italy

“Prohibition, the Spruce Goose, Concurrent  
Chemoradiotherapy and Other Bad Ideas That Went  
Too Far”  
2011 Morton Kligerman Award Lecture  
University of Pennsylvania  
September 28, 2011  
Philadelphia, PA

“Radiation Therapy is *Finally* a Way to Cure Early  
Stage Lung Cancer”  
Thoracic Surgery Summit  
Harvard University  
October 7, 2011  
Boston, MA

“Stereotactic Ablative Radiotherapy for Treatment of  
Primary Cancer and Metastases”  
US Oncology Annual Meeting  
November 11, 2011  
Dallas, TX

“Evaluation and Implementation of Stereotactic  
Ablative Radiotherapy in Managing Lung Cancer”  
Lung Cancer “Shoot-out”  
International Radiosurgery Society Annual Meeting  
February 23-24, 2012  
Carlsbad, CA

“Stereotactic Ablative Radiotherapy for Treatment of Primary Cancer and Metastases”

American Association of Physics in Medicine Annual Meeting

March 18, 2012

Dallas, TX

“Stereotactic Radiation: Radiobiology”

“Stereotactic Radiation: Future Prospects”

Korean Radiosurgery Society Annual Meeting

March 19-23, 2012

Seoul, South Korea

“Normal Tissue Radiation Tolerances and Hypofractionation”

Caribe Radiotherapy Symposium

April 20-23, 2012

San Juan, Puerto Rico

“Image Guided Hypofractionated Radiotherapy: Where Progress Battles a Longstanding (and Lucrative) Tradition”

American Radium Society Annual Meeting

May 1, 2012

Las Vegas, NV

“The Role of Stereotactic Body Radiation Therapy in the Treatment of Lung Cancer”

American Thoracic Society Annual Meeting

May 18, 2012

San Francisco, CA

“Oligofractionated Stereotactic Irradiation: Radiobiological Observations”

“Stereotactic Body Radiation Therapy for Prostate Cancer”

“Image Guided and Motion Controlled Radiotherapy”

“Prospective Investigations of Pulmonary Stereotactic Body Radiation Therapy”

“Stereotactic Body Radiation Therapy for Liver Metastases”

Brazilian Society of Radiotherapy Annual Meeting

June 19-23, 2012

Curitiba, Brazil

“Implementing Stereotactic Ablative Radiotherapy in Management of Cancers”

“Management of Liver Cancers with Stereotactic Ablative Radiotherapy”

“Role of Stereotactic Ablative Radiotherapy in the Treatment of Lung Cancer”

“Contouring for Stereotactic Radiotherapy”

Australian College of Radiology Annual Meeting

July 26-28, 2012

Cairns, Queensland, Australia

“Phase I Trials in Radiotherapy: An Idea Whose Time Has Come?”

Presidential Symposium

“Clinical Aspects of Hypofractionation”

Educational Session

“No Clinically Significant Changes in Pulmonary Function Following Stereotactic Body Radiation Therapy among Medically Inoperable Patients with Early Stage Peripheral Non-small Cell Lung Cancer: An Analysis of RTOG 0236”

American Society of Therapeutic Radiology and Oncology Annual Meeting

October 27-31, 2012

Boston, MA

“Pitfalls and Challenges of Setting Up a Stereotactic Radiotherapy Service for Lung Cancer”

“Motion Assessment and Control in Thoracic Tumors”

“Role of Stereotactic Ablative Radiotherapy in the Treatment of Lung Cancer”

Association of Radiation Oncologists of India Annual Meeting

November 27-December 4, 2012

Kolkata, India

“Stereotactic Ablative Radiotherapy for the Treatment of Early Stage Non-small Cell Lung Cancer”

American College of Radiation Oncology Annual Meeting

February 13-14, 2013

San Antonio, TX

“Dose Response Considerations from a Prospective Experience with Stereotactic Radiotherapy for Prostate Cancer”

Cleveland Clinic Stereotactic Symposium

February 21-24, 2013

Orlando, FL

“Evaluation and Implementation of Stereotactic Ablative Radiotherapy in Managing Lung Cancer”

World Conference on Interventional Oncology

May 16-18, 2013

New York, NY

“Treatment of the Marginally Operable Patient: The Case for SABR”

American Thoracic Society Annual Meeting

May 18-20, 2013

Philadelphia, PA

“Clinical Trials that Incorporate Technology”  
 ASTRO/AAPM/NIH Technology for Innovation in  
 Radiation Oncology Workshop  
 June 12-14, 2013  
 Bethesda, MD

“Hypofractionation in SBRT”  
 Time-Dose-Fractionation Workshop  
 University of Wisconsin  
 September 9-11, 2013  
 Madison, WI

“Evaluation and Implementation of Stereotactic  
 Ablative Radiotherapy in Managing Lung Cancer”  
 “The Rise and Fall of Conventional Radiotherapy”  
 Munson Regional Hospital CME Program  
 September 12-14, 2013  
 Traverse City, MI

“Hypofractionation in the Clinic”  
 Educational Session  
 American Society of Therapeutic Radiology and  
 Oncology Annual Meeting  
 September 22-26, 2013  
 Atlanta, GA

“SABR in Borderline Operable Stage I NSCLC”  
 “Stereotactic Ablative Radiotherapy: Past, Current,  
 and Future”  
 MD Anderson Radiosurgery Symposium  
 October 18-19, 2013  
 Houston, TX

“Stereotactic Ablative Radiotherapy: A Model for  
 Transforming the Efficacy of Local Therapy for any  
 Cancer Stage”  
 Frontiers in Oncology  
 Continuum Cancer Center  
 February 19-20, 2014  
 New York, NY

“The Current and Future Role of Radiosurgery in  
 Intracranial and Extracranial Disorders”  
 Inaugural Presentation  
 Leksell Society  
 May 11, 2014  
 New York, NY

“Stereotactic Ablative Radiotherapy for the  
 Treatment of Non-small Cell Lung Cancer”  
 Central European Symposium on Radiation Oncology  
 May 16, 2014  
 Glewice, Poland

“Radiotherapy in Early Stage Non-small Cell Lung  
 Cancer”

“Radiotherapy for Later Stages of Non-small Cell  
 Lung Cancer”

“Radiotherapy for Lung Cancer: What NOT To Do”  
 Chile Lung Cancer Congress  
 August 11-12, 2014  
 Santiago, Chile

“Rethinking The Appropriateness of Conventional  
 Radiotherapy and Chemotherapy Applications in an  
 Era of Dramatic Evolution and Improvements in  
 Technology”

Photon, Proton, and Carbon Ion Radiotherapy:  
 Advances in Basic, Translational and Clinical  
 Research  
 Colorado State University  
 August 8, 2014  
 Denver, Colorado

“Image Guided Radiotherapy for Lung Cancer”  
 Latin America Lung Cancer Association  
 August 22, 2014  
 Lima, Peru

“Hypofractionation in SBRT”  
 Time-Dose-Fractionation Workshop  
 University of Wisconsin  
 September 9, 2014  
 Madison, Wisconsin

“Long-Term Results of RTOG 0236: A Phase II  
 Trial of SBRT in the Treatment of Patients with  
 Medically Inoperable Stage I Non-Small Cell  
 Cancer”

Proffered Presentation

“Stereotactic Body Radiation Therapy: Clinical  
 Rationale and Experience”

“Hypofractionation in the Clinic”  
 Educational Sessions

American Society of Therapeutic Radiology and  
 Oncology Annual Meeting  
 September 12-16, 2014  
 San Francisco, CA

“Stereotactic Ablative Radiotherapy: A Local  
 Therapy Poised to Fight Metastatic Cancer”  
 George Edelsyn Lecture  
 10<sup>th</sup> NCRI Cancer Conference  
 November 4, 2014  
 Liverpool, England

“Stereotactic Ablative Radiotherapy: A Local Therapy Poised to Fight Metastatic Cancer”  
US Oncology Educational Symposia  
November 9, 2014  
Dallas, TX

“Carbon Ion Symposium Current Status and Future Vision: Clinical Considerations”  
UTSW Carbon Ion Symposium  
November 14, 2014  
Dallas, TX

“Experience with Stereotactic Ablative Radiotherapy in Early Lung Cancer”  
2014 Rematch of Shootout  
Radiosurgery Society Web-ex  
November 19, 2014

“Contemporary Results with Stereotactic Ablative Radiotherapy”  
Society of Thoracic Surgeons Annual Meeting  
January 27, 2015  
San Diego, CA

“Avoid Injury vs. Poise to Repair for SBRT in Prostate CA: What Should Be Our Priority?”  
“How I Treat Lung Metastases...And Why”  
Cleveland Clinic Stereotactic Symposium  
February 19-20, 2015  
Orlando, FL

“Clinical Applications of High Dose Per Fraction Radiotherapy”  
Integrating Radiobiology with Medical Physics  
Wayne State University  
May 6-7, 2015

“Stereotactic Ablative Radiotherapy (SAbR): A Local Therapy Poised to Fight Metastatic Cancer”  
International Congress of Radiation Research  
Kyoto, Japan  
May 25-29, 2015

“SBRT Clinical Trials for Lung Cancer”  
Hawaii Society of Clinical Oncology  
Honolulu, Hawaii  
August 11, 2015

“Pro vs. Con: SBRT for Non-Biopsied Lung Nodules”  
16<sup>th</sup> World Conference on Lung Cancer  
Denver, CO  
September 7, 2015

“Advanced Topics in Prostate Radiotherapy and SBRT”  
US Oncology Semi-Annual Symposium  
Dallas, TX  
September 25, 2015

“Radiobiology of Single/Oligofractionation and Clinical Applications”  
“Radiosurgery in Prostate and Kidney: New Strategy”  
“Clinical Use of Proton Therapy”  
From Surgery to Radiosurgery: The Challenge Continues  
Association of Italian Radiation Oncology  
La Spezia, Italy  
October 2-3, 2015

“A Clinical and Technological Roadmap of Hypofractionation and Detours Along the Way”  
“Hydrogel Spacer use in Dose Escalated Prostate SBRT”  
“Clinical Experience with Hypofractionation and SBRT”  
American Society for Therapeutic Radiology and Oncology (ASTRO) Annual Meeting  
October 18-20, 2015

“SBRT for Early Stage Lung Cancer”  
First International Forum on Frontiers in SBRT/SRS  
15<sup>th</sup> Asia-Oceania Congress of Medical Physics  
Xian, China  
November 6, 2015

“The Role of SAbR in Oligometastatic Disease”  
“Complex Case Discussion”  
Stereotactic Ablative Radiotherapy Event  
UK SAbR Consortium and British Institute of Radiology  
Belfast, Northern Ireland  
November 19-20, 2015

“Advanced Topics in Prostate Radiotherapy and SBRT”  
US Oncology Semi-Annual Symposium  
Las Vegas, NV  
January 29, 2016

“How I Treat Prostate Cancer... and Why”  
“Lessons Learned in the Last Decade of Lung SBRT”  
Cleveland Clinic Stereotactic Symposium  
February 19-22, 2016  
Orlando, FL

“SBRT for Prostate Cancer: Clinical Problems and Solutions”

New Frontiers In Prostate Cancer: From Diagnosis to Treatment  
Bologna, Italy  
March 4, 2016

“SAbR for Lung Cancer: Applications from Stage I to IV”  
Radiotherapy 2016 Multidisciplinary Approaches for Thoracic Neoplasms  
Parma, Italy  
March 5, 2016

“Stereotactic Ablative Radiotherapy: A Local Therapy Poised to Fight Metastatic Cancer”  
Oncology Hematology Grand Rounds  
Winthrop University Hospital  
Mineola, NY  
March 29, 2016

“Hypofractionation”  
Charged Particle Radiobiology  
US National Cancer Institute  
Rockville, MD  
April 5-6, 2016

“Radiation Therapy: Current Status”  
“Can Radiotherapists Use the Support of IR”  
European Conference on Interventional Oncology  
Dublin, Ireland  
April 17-20, 2016

“Clinical Applications of High Dose Per Fraction”  
Integrating Radiobiology with Medical Physics  
Wayne State University  
May 9-10, 2016

“Advances in SBRT”  
1<sup>st</sup> Beijing International Conference of Stereotactic Radiosurgery  
Beijing, China  
August 19, 2016

“Hypofractionation for Ion Therapy”  
3<sup>rd</sup> International Society for Ion Therapy  
Milan, Italy  
November 4, 2016

“High Dose Fractionated SBRT for Prostate Cancer”  
Memorial Sloan Kettering Prostate Radiotherapy Symposium  
New York, NY  
November 9, 2016

“Early Stage Lung Cancer Patients Don’t Need a Thoracic Surgeon (Debate)”  
53<sup>rd</sup> Annual Meeting  
The Society of Thoracic Surgeons  
Houston, TX  
January 21, 2017

“Prostate Cancer SAbR vs. Brachytherapy (Debate)”  
“Practical Lung SAbR Considerations”  
Cleveland Clinic Stereotactic Symposium  
February 24-26, 2017  
Orlando, FL

“Why Novel Local Therapies are Essential for Systemic Cancer Cure”  
Levine Cancer Institute  
Charlotte, NC  
April 18, 2017

“Why Novel Local Therapies are Essential for Systemic Cancer Cure”  
Delaware Society for Clinical Oncology  
Wilmington, DE  
April 27, 2017

“Beyond the Ugly Duckling”  
Italian Lung Cancer Symposium  
Salerno, Italy  
May 19, 2017

“Clinicians Perspective on Dose and Desired Outcome”  
Radiation Research Program Workshop  
Shades of Gray  
NIH  
Bethesda, MD  
September 11-12, 2017

“ASTRO Presidential Symposium Session 1 Moderator”  
“SAbR Experience for Prostate Cancer”  
American Society for Therapeutic Radiology and Oncology (ASTRO) Annual Meeting  
San Diego, CA  
September 24-25, 2017

“SAbR is Mightier Than the Scalpel (Debate)”  
Eastern Cardiothoracic Surgery Society Annual Meeting  
Amelia Island, FL  
October 20, 2017

“Is SRS/SBRT Immune Modulatory: A Lung Cancer Experience”

Radiosurgery Society Scientific Meeting  
Las Vegas, NV  
November 3, 2017

“Lung Cancer Update”  
US Oncology Annual Meeting  
Dallas, TX  
November 5, 2017

“SAbR for Central Lung Tumors”  
“Approach to Contouring for Lung Cancer”  
“The Role of Proton/Ion Therapy in the Management  
of Lung Cancer”  
Russian Society of Clinical Oncology Lung  
Conference  
Moscow, Russia  
March 1-2, 2018

“The History and Impact of Stereotactic Body  
Radiation Therapy”  
American Association of Medical Dosimetrists  
Annual Meeting  
Austin, TX  
June 18, 2018

“Technological Innovations in Prostate  
Radiotherapy”  
University of Toronto  
Toronto, Ontario Canada  
June 21, 2018

“Long-term Results of NRG Oncology RTOG 0236:  
A Phase II Trial of Stereotactic Body Radiation  
Therapy in Medically Inoperable Stage I Non-small  
Cell Lung Cancer”  
NRG Oncology Semi-Annual Meeting  
Publications Scientific Session  
July 13, 2018

“Radiobiology of Hypofractionation”  
“Hypofractionation in the CNS”  
Colombian Society of Radiation Oncology  
Medellin, Colombia  
August 25, 2018

“Stereotactic Ablative Radiotherapy: Then, Now,  
and in the Future”  
Northwest American Association of Physicists in  
Medicine  
Seattle, WA  
September 14, 2018

“Bringing Carbon Ion Therapy Back to the US”  
Plenary

American Society of Radiological Technologists  
Annual Meeting  
San Antonio, TX  
October 21, 2018

“State of the Science: Dose Escalation in SAbR for  
Prostate Cancer”  
Advances in SBRT in the Management of Prostate  
Cancer  
San Antonio, TX  
October 21, 2018

Plenary Discussant  
“Stereotactic Ablative Radiotherapy for the  
Comprehensive Treatment of Oligometastatic Tumors  
(SABR-COMET): Results of a Randomized Trial”  
American Society for Radiation Oncology  
Annual Meeting  
San Antonio, TX  
October 22, 2018

#### 4.) STUDENT PROJECTS

I have been the mentor for several research/educational projects for our therapy students, residents, and fellows. Many of these projects have led to a manuscript and publication. These include:

- “Experience with colloidal P-32 in the treatment of cystic brain tumors.” May 1995, Li Fen Chang, M.D., Ph.D.
- “Development of a moving table total body irradiation system.” May 1996, Y. Peter Peng, M.D.
- “Evaluation of beam direction in the treatment of posterior fossa tumors.” May 1997. Merideth Donges, R.T. (T)
- “Experience with surgery, radiotherapy, and chemotherapy for Merkel Cell Cancer.” May 1998. Ethel Dijamco, M.D.
- “Dose Response in Neuroblastoma.” May 1999. Drayton Logan, M.D.
- “Evaluation of the effect of collimator rotation for routine head and neck irradiation.” May 2000.
- “Monte Carlo calculations of laryngeal radiation therapy,” June 2001. Sergei Spirydov, M.S.
- “Cataract formation after Gamma Knife radiation to the rat lens,” May 2002. Craig Tyree, M.D.
- “Large dose stereotactic radiation to the rat bronchus,” June 2003. Brent Tinnel, M.D.
- “Projects in Stereotactic Body Radiation Therapy,” July 2006-June 2007, Doris Duke Fellowship mentor, John Anderson, M.D.
- “Development of a device to deliver constant abdominal pressure for SBRT,” June-July 2007, Jessie Dickens, MS
- “Stereotactic Body Radiation Therapy in Non-small Cell Lung Cancer.” Pia Bauman, M.D., PhD Dissertation, Dissertation Defense Opponent, Stockholm, Sweden, April 26, 2009.
- “Stereotactic Body Radiation Therapy Replacing Brachytherapy for Advanced Cervix Cancer.” Elesyia Outlaw, M.D., Master’s Thesis, Clinical Scholars Program Faculty Mentor, UTSW.

#### 5.) OTHER TEACHING SERVICE

I am a full time faculty attending who sees patients daily along with a resident physician in training. Most patients are seen in consultation as outpatients, but around ten percent are seen as in-patients. Radiation Oncology does not have a formal in-patient service, but we do admit patients occasionally for implants or to manage toxicity of therapy. Residents participate with me at every level of radiation oncology evaluation and management in a classic apprentice/mentor model.

On a national level, we have been extensively involved in the development and translation of CNS stereotactic therapies to the body. As such, we are a distinguished resource to clinicians across the country for patient management issues related to this therapy. Previously we hosted several international symposia to promote this therapy in the US and abroad. More recently, we have extended our outreach for this therapy by hosting a quarterly training program on this approach.

Other assignments related to resident education included:

Item Writer, Radiation Oncology Written Examination, American Board of Radiology, 1997-2004.

Oral Board Examiner, Radiation Oncology Oral Board, American Board of Radiology, 2004.

Member, Relevance Committee for the Recertification Examination, American Board of Radiology, 1999.

Course Instructor, Radiation Therapy Oncology Group Workshops on SBRT, semi-annually, 2010-2012

#### **PROFESSIONAL SERVICE:**

Faculty Member, Center for Minimal Invasive Therapy, Indiana University/Purdue University/Rose Hulman Institute of Technology, 1996-2004.

Drafter, Subcommittee for 3-D External Beam Radiation Planning and Conformal Therapy Draft Standard, American College of Radiology, 1997

Member, Radiation Oncology Committee, Children’s Oncology Group, 1998-present.

Item Writer, Radiation Oncology Written Examination, American Board of Radiology, 1997-2003.

Oral Board Examiner, Radiation Oncology Oral Board, American Board of Radiology, 2004-present

Secretary/Treasurer, Indiana Society of Radiation Oncology, 1998

President-elect, Indiana Society of Radiation Oncology, 1998-2000

President, Indiana Society of Radiation Oncology, 2001

President, Radiation Oncology Academy of Indiana, 2001-2003

Member, Relevance Committee for the Recertification Examination, American Board of Radiology, 1999.

Member, National Cancer Institute Review Panel/Site Visit Team, American College of Surgeons Oncology Group, 1999.

Panel Member, National Cancer Institute Committee for "State of the Science for Lung Cancer," 2001

Full Member, CNS and Radiation Oncology Committees, Children's Oncology Group, 2000-present

Board Member, Advisory Board. Health Technology Forecast. ECRI. June 2003-present.

Committee Member, Clarian Research Committee, Clarian Grants Administration, Clarian Health Partners, Inc., 2004

Drafting Committee Member, Stereotactic Body Radiation Therapy Guidelines Subcommittee of the Guidelines and Standards Committee, American College of Radiology, 2003-2004

Member, External Advisory Board, Walther Cancer Institute, 2002-2004

Member, Lung Committee, Radiation Therapy Oncology Group, 2004-present

Member, Image-Guided Radiation Committee, Radiation Therapy Oncology Group, 2004-present

External Reviewer, Cancer Therapy Evaluation Program (CTEP), National Cancer Institute, Concept Review Panel, 2005-present

Lead Member, Expert Physician Panel, Texas State Board of Medical Examiners, 2005-present

Co-Chairman for Stereotactic Radiotherapy, Advanced Technology Integration Committee, Radiation Therapy Oncology Group, 2005-present

Panel Reviewer, P01 Cluster Review for Radiotherapy Trials, National Institutes of Health, 2005-2008.

CTEP Concept Review Committee, Brain Tumor Studies, 2005.

Advisory Consultant for Image Guided Therapy, BrainLab Corporation, February 2006

Scientific Advisory Board, D-3 Corporation, 2006-present

Committee Member, Monitoring Subcommittee of the Emerging Technology Committee, American Society for Therapeutic Radiology and Oncology, 2009-present

Committee Member, Lung Cancer Resource Panel of the Clinical Affairs and Quality Committee, American Society for Therapeutic Radiology and Oncology, 2010-present

VALOR Protocol Advisory Committee, US Veterans Administration, 2016-present

**UNIVERSITY SERVICE:**

Co-Director of Stereotactic Radiosurgery, Indiana University Medical Center, 1994-1997.

Member, Indiana University Resource Management and Utilization Committee, 1994-1996.

Member, Indiana University Multidisciplinary Head and Neck Oncology Program, 1994-1999.

Member, Indiana University Multidisciplinary Neuro-Oncology Program, 1994-2004.

Member, Indiana University Soft Tissue and Bone Tumor Multidisciplinary Program, 1994-2004.

Member, Indiana University Practice Plan Computing Needs Committee, 1995-1997.

Chairman, Indiana University Department of Radiation Oncology Continued Quality Improvement Committee, 1995-2004.

Member, Indiana University Machine Produced Radiation Safety Committee, 1995-2004.

Member, Pediatric Scientific Review Committee, Riley Hospital for Children, 1996-1999.

Co-Director, Indiana Lions Gamma Knife Center, 1997-2004

Member, Adult Scientific Review Committee, Indiana University Medical Center, 1998-2001.

Member, Indiana University Cancer Center Experimental Therapeutics Division, 2003-2004.

Director, Image-Guided Stereotactic Radiation, Univ. of Texas Southwestern, 2004-present.

Director, Gamma Knife and Cyberknife Facilities, Univ. of Texas Southwestern, 2004-present.

Director of Clinical Research, Dept. of Radiation Oncology, Univ. of Texas Southwestern, 2004-present.

Compliance Officer, Univ. of Texas Southwestern Radiation Oncology Department, 2004-2011.

Chairman, UTSW Simmons Cancer Center Protocol Review and Monitoring Committee, 2013-present

Clinical Director, Department of Radiation Oncology, Univ. of Texas Southwestern, 2014-present

Medical Executive Committee, Univ. of Texas Southwestern, 2017- present

Clinicians Advisory Committee, Univ. of Texas Southwestern, 2017-present

Faculty pool for interviewing potential medical students, UTSW, 2017

Search Committee Member, AIRC Director, UTSW, 2017

**PEER REVIEWED PUBLICATION ACTIVITIES:**

Editorial board:

Technology in Cancer Research and Treatment  
Journal of Radiosurgery and SBRT (defunct)  
Journal of Clinical Oncology

Ad Hoc reviewer:

International Journal of Radiation Oncology, Biology, and Physics  
Journal of Stroke and Cerebrovascular Diseases  
Expert Opinion on Investigational Drugs  
Journal of Clinical Oncology  
Lung Cancer  
The Cancer Journal  
Cancer  
Community Oncology  
Acta Oncologica  
Radiotherapy and Oncology  
Urology  
Nature

**GRANTS AND FELLOWSHIPS:**

I R03 CA70150-01 (Principal Investigator Scott Saxman)  
 NIH/NCI \$67,200  
 “Paclitaxel Radiosensitization in Head and Neck Cancer”

Pharmacyclics, Inc. (I.U. Principal Investigator Robert Timmerman)  
 \$128,120  
 “A Phase Ib/II Repetitive Dose Trial of Gadolinium Texaphyrin (PCI-0120) Injection as a Radiosensitizer in Patients with Metastatic Cancer to the Brain”

I.U. Dept. of Radiology (Principal Investigator Scott Trerotola)  
 “Effects of Brachytherapy on Stents in Hemodialysis Access Grafts”

I.U. Dept. of Otolaryngology (Principal Investigator Paul Righi)  
 “The Utility of Ultrasound in Staging and Management of Head and Neck Cancer Patients”

I.U. Division of Hematology/Oncology (Principal Investigator Rafat Abonour)  
 “High Dose Cyclophosphamide, Carmustine and Etoposide Followed by Transplantation with Peripheral Blood Stem Cells in the Treatment of Relapsed or Refractory Hodgkin’s Disease”

I.U. Dept. of Radiation Oncology (Principal Investigator Robert Timmerman)  
 “Phase II Study of Preoperative Moderate Dose Locoregional Radiotherapy and Concurrent Intravenous Cisplatin and Protracted Venous Infusion 5-Fluorouracil for Advanced but Resectable Head and Neck Squamous Cell Carcinoma”

Riley Hospital for Children (Principal Investigator Regina Jakacki)  
 “Neoadjuvant Chemotherapy and Reduced Dose Radiation Therapy for Newly Diagnosed Primary Intracranial Germinoma Germ Cell Tumors”

Riley Hospital for Children (Principal Investigator Regina Jakacki)  
 “Neoadjuvant Chemotherapy and Radiation Therapy for Newly Diagnosed Primary Intracranial Non-Germinoma Germ Cell Tumors (NGGCT), with Dose-Intensified Chemotherapy and Peripheral Blood Stem Cell Support for Initially Refractory Disease.”

Elekta Oncology Systems, Inc. (I.U. Principal Investigators Robert Timmerman and Thomas Witt)  
 \$50,000  
 “Radiosurgery Research and Development.”

Pharmacyclics, Inc. (I.U. Principal Investigator Robert Timmerman)  
 \$156,000

“Phase III Randomized Trial of Gadolinium Texaphyrin (PCI-0120) Injection as a Radiation Sensitizer in Patients Receiving Whole Brain Radiation Therapy for the Treatment of Brain Metastases”

Children’s Cancer Group – CCG-09712 (Radiotherapy member of national study committee Robert Timmerman)  
 “A Phase I Study of Gadolinium Texaphyrin (NSC 695238) and Involved Field Radiation Therapy for Intrinsic Pontine Glioma of Childhood”

Novoste Corporation, Inc. (I.U. Principal Investigators Robert Timmerman and Vincent Pompili)  
 “The Beta-Cath System Trial.”

Novoste Corporation, Inc. (I.U. Principal Investigators Robert Timmerman and Vincent Pompili)  
 “The START Trial.”

Children’s Oncology Group – ADVL0011 (Radiotherapy member of national study committee Robert Timmerman)  
 “A Phase I Study of Temozolomide and CCNU in Pediatric Patients with Newly Diagnosed Incompletely Resected Non-Brainstem High-Grade Gliomas”

I.U. Thoracic Oncology Program (Principal Investigator Robert Timmerman)  
 “Phase I and II Study of Stereotactic Body Radiotherapy in Medically Unresectable Patients with Stage I Non-Small Cell Lung Cancer”

Precision Therapy International (Principal Investigator Robert Timmerman)  
 \$70,000  
 “Equipment for Research in Stereotactic Body Radiotherapy”

Clarian Values Fund (Principal Investigator Robert Timmerman)  
 \$50,000  
 “Stereotactic Body Radiotherapy Investigation in Early Stage Lung Cancer”

Indiana Cancer Pavilion Core Grant Funds for Multidisciplinary Research (Principal Investigator Joe Dynlacht)  
 \$20,000  
 “Effect of Estrogen Stimuli on the Formation of Cataracts in a Rat Model”

Pharmacyclics, Inc. (I.U. Principal Investigator Robert Timmerman)  
 \$108,000  
 “Phase II Randomized Trial of Motexafin Gadolinium and Cranial Irradiation in the Treatment of Newly Diagnosed Glioblastoma Multiforme”

Children’s Oncology Group – ACNS0125 (Radiotherapy member of national study committee Robert Timmerman)  
 “A Phase II Study of Limited Target Volume Boost Irradiation for Average-Risk Medulloblastoma”

National Institutes of Health, R03 Grant (Principal Investigator Joseph Dynlacht)  
 “Effect of estrogen on radiation-induced cataractogenesis”  
 \$442,100

I.U. Department of Radiation Oncology (Principal Investigator Higinia Cardenes)  
 “Multi-institution Phase I/II Study of Extracranial Stereotactic Radioablation for Liver Metastases and Primary Hepatocellular Carcinoma”

Novoste Corporation, Inc. (I.U. Principal Investigator Matt Johnson)  
 “The BRAVO Trial.”

Indiana Cancer Center Thoracic Oncology Program (Principal Investigator Ronald McGarry)  
 “Effects of Bronchus Radioablation in an Animal Model”

\$50,000

Varian Corporation (Principal Investigator Robert Timmerman)  
“Development of a Extracranial Stereotactic Immobilization Device”  
\$200,000 awarded 5/1/03

National Institutes of Health, R21 Grant, 1R21CA097721-01 (Principal Investigator Robert Timmerman)  
“Extracranial Stereotactic Radioablation in Lung Cancer”  
\$610,000 awarded 6/30/03

Radiation Therapy Oncology Group (National Principal Investigator Robert Timmerman)  
“RTOG 0236: A Phase II Trial of Stereotactic Body Radiation Therapy (SBRT) in the Treatment of Patients with Medically Inoperable Stage I/II Non-Small Cell Lung Cancer”

NASA Competitive Grant (Principal Investigator Joe Dynlacht)  
“Effects of Estrogen on Cataract Induction after Exposure to High LET Radiation”  
\$1,338,158 awarded 5/05

Radiation Therapy Oncology Group (Principal Investigator Robert Timmerman)  
University of Texas Southwestern – Full Member Institution  
\$2000 per case accrual plus overhead

U.S. Department of Defense, Clinical Trial Development Grant, PC050628 (Principal Investigator Robert Timmerman)  
“Development of a Phase I/II Clinical Trial Using Stereotactic Body Radiation Therapy (SBRT) for the Treatment of Localized Prostate Carcinoma”  
\$100,000 awarded 4/05

Varian Corporation (Principal Investigator Robert Timmerman)  
“Feasibility of Planning and Delivering Central Nervous System Radiotherapy in a Single Session Image Guided Therapy Using the Varian On-Board Imager (OBI): A Virtual Cone-beam Analysis”  
\$200,000 awarded 10/1/05

Elekta Oncology, Ltd. (Principal Investigator Robert Timmerman)  
“Developing Processes for Dynamic Image Guided and Adaptive Radiation Delivery”  
\$1,000,000 awarded 6/1/06

Radiation Therapy Oncology Group (National Principal Investigator Robert Timmerman)  
“RTOG 0618: Phase II Trial of Stereotactic Body Radiation Therapy (SBRT) in the Treatment of Patients with Operable Stage I/II Non-Small Cell Lung Cancer”

Radiation Therapy Oncology Group (National Co-Investigator Robert Timmerman)  
“RTOG 0631: Phase II/III Study of Image-guided Radiosurgery/SBRT for Localized Spine Metastasis”

Simmons Comprehensive Cancer Center (Principal Investigator Robert Timmerman)  
University of Texas Southwestern Medical Center  
“Translational Biological Investigation of Ablative Dose Fractionation used in Stereotactic Body Radiation Therapy”  
\$100,000 awarded 9/1/07

U.S. Department of Defense, Clinical Trial Award, PC074348 (Principal Investigator Robert Timmerman)  
“Stereotactic Body Radiation Therapy for Underserved Populations of Men with Low- and Intermediate-Risk Prostate Cancer”  
\$1,003,346 awarded 11/07

Radiation Therapy Oncology Group (National Co-Investigator Robert Timmerman)

“RTOG 0813: Seamless Phase I/II Study of Stereotactic Lung Radiotherapy (SBRT) for Early Stage, Centrally Located, Non-Small Cell Lung Cancer (NSCLC) in Medically Inoperable Patients”

Radiation Therapy Oncology Group (National Co-Investigator Robert Timmerman)

“RTOG 0915: A Randomized Phase II Study Comparing 2 Stereotactic Body Radiation Therapy (SBRT) Schedules for Medically Inoperable Patients with Stage I Peripheral Non-Small Cell Lung Cancer”

American College of Surgeons Oncology Group and Radiation Therapy Oncology Group (National Co-Principal Investigator Robert Timmerman)

“ACOSOG Z4099/RTOG 1021: A Randomized Phase III Study of Sublobar Resection versus Stereotactic Body Radiation Therapy for High Risk Patients with Stage I Non-small Cell Lung Cancer (NSCLC)”

Cancer Prevention and Research Institute of Texas, Multi-investigator Award, (Principal Investigator Hak Choy)

“Realizing Technological Advances: The State of Texas Advanced Radiation Therapy (START) Trial”

Project 1 (Project Leader Robert Timmerman)

\$4,564,300 awarded 4/2011

Cancer Prevention and Research Institute of Texas, Multi-investigator Award, RP120670 (Principal Investigator Robert Timmerman)

“Exploiting the Radiobiology of Stereotactic Radiotherapy”

\$5,097,543 awarded 8/2012

National Institutes of Health P20 Planning Grant, PAR-13-096 (Principal Investigator Hak Choy)

“Planning for a National Center for Particle Beam Radiation Therapy Research”

\$1,000,000 awarded 10/2014

Joint Lung Cancer Trialist’s Coalition (JoLT-Ca)

“A Randomized Phase III Study of Sublobar Resection vs. Stereotactic Ablative Radiotherapy in High Risk Patients with Stage I Non-small Cell Lung Cancer” (Principal Investigators Robert Timmerman and Hiran Fernando)

\$4,000,000 awarded 1/2015

National Institutes of Health R01 CA202761-01A1 (Principal Investigators Robert Timmerman and Amit Sawant)

“Investigating Radiation-Induced Injury to Airways and Pulmonary Vasculature in Lung SAbr”

\$819,540 Awarded 7/2016

## **PUBLICATIONS:**

MANUSCRIPTS (all research, scholarship or creative activities)<sup>1-207</sup>

1. Timmerman R. *Lattice physics calculations for graphite moderated systems*. Knoxville: Reactor Physics, University of Tennessee at Knoxville; 1985.
2. Timmerman R, Burns TJ. *TIDE - a code for top-down influence diagram evaluation*. Oak Ridge, TN: Oak Ridge National Laboratory; August 1985. ORNL/TM 9257.
3. Timmerman R, Burns TJ, Dodds HL. Top-down versus bottom-up processing of influence diagrams in probabilistic analysis. *Transactions of the American Nuclear Society*. Reno, NV 1986.
4. Vondy DR, Timmerman R. *Estimated reactivity effects from water ingress and temperature changes for a modular pebble bed HTGR core*. Oak Ridge, TN: Oak Ridge National Laboratory; March 1986. ORNL/TM 9716 & HTGR-85-170.
5. Chun M, Timmerman RD, Mayer R, Ling MN, Sheldon J, Fishman EK. Radiation therapy of external iliac lymph nodes with lateral pelvic portals: identification of patients at risk for inadequate regional coverage. *Radiology*. Jan 1995;194(1):147-150.
6. Gardner PA, Miyamoto RG, Shah MV, Righi PD, Timmerman RD. Malignant familial glomus jugulare and contralateral carotid body tumor. *Am J Otolaryngol*. Jul-Aug 1997;18(4):269-273.

7. Mayer R, Williams A, Frankel T, et al. Two-dimensional film dosimetry application in heterogeneous materials exposed to megavoltage photon beams. *Med Phys.* Mar 1997;24(3):455-460.
8. Righi PD, Weisberger EC, Krakovits PR, Timmerman RD, Wynne MK, Shidnia H. Wound complications associated with brachytherapy for primary or salvage treatment of head and neck cancer. *Laryngoscope.* Nov 1997;107(11 Pt 1):1464-1468.
9. Trerotola SO, Carmody TJ, Timmerman RD, et al. Brachytherapy for the prevention of stenosis in a canine hemodialysis graft model: preliminary observations. *Radiology.* Sep 1999;212(3):748-754.
10. Woodburn R, Danis R, Timmerman R, et al. Preliminary experience in the treatment of choroidal melanoma with gamma knife radiosurgery. *Journal of neurosurgery.* Dec 2000;93 Suppl 3:177-179.
11. Carde P, Timmerman R, Mehta MP, et al. Multicenter phase Ib/II trial of the radiation enhancer motexafin gadolinium in patients with brain metastases. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology.* Apr 1 2001;19(7):2074-2083.
12. Bank MI, Timmerman R. Superimposition of beams to vary shot size in gamma knife stereotactic radiosurgery. *Journal of applied clinical medical physics.* Winter 2002;3(1):19-25.
13. Cardenes HR, Timmerman R, Papiez L. Extracranial stereotactic radioablation: review of biological basis, technique and preliminary clinical experience. *Oncologia.* 2002;25(4):193-199.
14. McGarry RC, Song G, des Rosiers P, Timmerman R. Observation-only management of early stage, medically inoperable lung cancer: poor outcome. *Chest.* Apr 2002;121(4):1155-1158.
15. Moskvina V, DesRosiers C, Papiez L, Timmerman R, Randall M, DesRosiers P. Monte Carlo simulation of the Leksell Gamma Knife: I. Source modelling and calculations in homogeneous media. *Physics in medicine and biology.* Jun 21 2002;47(12):1995-2011.
16. Timmerman RD. Adjuvant radiation for stage IIb soft tissue sarcoma of the extremity. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology.* Sep 15 2002;20(18):3929-3930; author reply 3930.
17. Timmerman RD, Mendonca M. In regard to Donaldson et al: results from the IRS-IV randomized trial of hyperfractionated radiotherapy in children with rhabdomyosarcoma-a report from the IRSG. *IJROBP* 2001;51:718-728. *International journal of radiation oncology, biology, physics.* Dec 1 2002;54(5):1579-1580; author reply 1580.
18. DesRosiers C, Mendonca MS, Tyree C, et al. Use of the Leksell Gamma Knife for localized small field lens irradiation in rodents. *Technology in cancer research & treatment.* Oct 2003;2(5):449-454.
19. Difilippo F, Papiez L, Moskvina V, et al. Contamination dose from photoneutron processes in bodily tissues during therapeutic radiation delivery. *Med Phys.* Oct 2003;30(10):2849-2854.
20. Kavanagh BD, Timmerman RD, Benedict SH, et al. How should we describe the radiobiologic effect of extracranial stereotactic radiosurgery: equivalent uniform dose or tumor control probability? *Med Phys.* Mar 2003;30(3):321-324.
21. Mehta MP, Rodrigus P, Terhaard CH, et al. Survival and neurologic outcomes in a randomized trial of motexafin gadolinium and whole-brain radiation therapy in brain metastases. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology.* Jul 1 2003;21(13):2529-2536.
22. Miller KD, Weathers T, Haney LG, et al. Occult central nervous system involvement in patients with metastatic breast cancer: prevalence, predictive factors and impact on overall survival. *Annals of oncology : official journal of the European Society for Medical Oncology.* Jul 2003;14(7):1072-1077.
23. Papiez L, Timmerman R, DesRosiers C, Randall M. Extracranial stereotactic radioablation: physical principles. *Acta oncologica.* 2003;42(8):882-894.
24. Timmerman R. Images in clinical medicine. Raccoon eyes and neuroblastoma. *The New England journal of medicine.* Jul 24 2003;349(4):e4.
25. Timmerman R, Papiez L, McGarry R, et al. Extracranial stereotactic radioablation: results of a phase I study in medically inoperable stage I non-small cell lung cancer. *Chest.* Nov 2003;124(5):1946-1955.
26. Timmerman R, Papiez L, Suntharalingam M. Extracranial stereotactic radiation delivery: expansion of technology beyond the brain. *Technology in cancer research & treatment.* Apr 2003;2(2):153-160.
27. Timmerman RD, Ewing M, Donges M, Wilson J, Jakacki R, Randall ME. Quantitative analysis of three-dimensional conformal radiotherapy techniques for posterior fossa treatment in children. *Technology in cancer research & treatment.* Dec 2003;2(6):587-593.

28. Timmerman RD, Patel D, Boaz JC, Goldman J, Jakacki RI. Patterns of failure after induction chemotherapy followed by consolidative radiation therapy for children with central nervous system germinoma. *Medical and pediatric oncology*. Dec 2003;41(6):564-566.
29. Van Derhei PM, Lim WC, Timmerman RD, Andres CJ. Use of computed tomography for the fabrication of a custom brachytherapy carrier: a clinical report. *The Journal of prosthetic dentistry*. Jan 2003;89(1):15-18.
30. DesRosiers PM, Moskvina VP, DesRosiers CM, Timmerman RD, Randall ME, Papiez LS. Lung cancer radiation therapy: Monte Carlo investigation of "under dose" by high energy photons. *Technology in cancer research & treatment*. Jun 2004;3(3):289-294.
31. Jakacki RI, Feldman H, Jamison C, Boaz JC, Luerssen TG, Timmerman R. A pilot study of preirradiation chemotherapy and 1800 cGy craniospinal irradiation in young children with medulloblastoma. *International journal of radiation oncology, biology, physics*. Oct 1 2004;60(2):531-536.
32. Manon R, Hui S, Chinnaiyan P, et al. The impact of mid-treatment MRI on defining boost volumes in the radiation treatment of glioblastoma multiforme. *Technology in cancer research & treatment*. Jun 2004;3(3):303-307.
33. Moskvina V, Timmerman R, DesRosiers C, et al. Monte carlo simulation of the Leksell Gamma Knife: II. Effects of heterogeneous versus homogeneous media for stereotactic radiosurgery. *Physics in medicine and biology*. Nov 7 2004;49(21):4879-4895.
34. Potters L, Steinberg M, Rose C, et al. American Society for Therapeutic Radiology and Oncology and American College of Radiology practice guideline for the performance of stereotactic body radiation therapy. *International journal of radiation oncology, biology, physics*. Nov 15 2004;60(4):1026-1032.
35. Timmerman R, Stoker GT, Wismeijer D, Oosterveld P, Vermeeren JI, van Waas MA. An eight-year follow-up to a randomized clinical trial of participant satisfaction with three types of mandibular implant-retained overdentures. *Journal of dental research*. Aug 2004;83(8):630-633.
36. McGarry RC, Papiez L, Williams M, Whitford T, Timmerman RD. Stereotactic body radiation therapy of early-stage non-small-cell lung carcinoma: phase I study. *International journal of radiation oncology, biology, physics*. Nov 15 2005;63(4):1010-1015.
37. Potters L, Timmerman R, Larson D. Stereotactic body radiation therapy. *Journal of the American College of Radiology : JACR*. Aug 2005;2(8):676-680.
38. Schefter TE, Kavanagh BD, Timmerman RD, Cardenes HR, Baron A, Gaspar LE. A phase I trial of stereotactic body radiation therapy (SBRT) for liver metastases. *International journal of radiation oncology, biology, physics*. Aug 1 2005;62(5):1371-1378.
39. Timmerman RD, Forster KM, Chinsoo Cho L. Extracranial stereotactic radiation delivery. *Seminars in radiation oncology*. Jul 2005;15(3):202-207.
40. Timmerman RD, Kavanagh BD. Stereotactic body radiation therapy. *Current problems in cancer*. May-Jun 2005;29(3):120-157.
41. Dynlacht JR, Tyree C, Valluri S, et al. Effect of estrogen on radiation-induced cataractogenesis. *Radiation research*. Jan 2006;165(1):9-15.
42. Henderson MA, Shirazi H, Lo SS, et al. Stereotactic radiosurgery and fractionated stereotactic radiotherapy in the treatment of uveal melanoma. *Technology in cancer research & treatment*. Aug 2006;5(4):411-419.
43. Kavanagh BD, McGarry RC, Timmerman RD. Extracranial radiosurgery (stereotactic body radiation therapy) for oligometastases. *Seminars in radiation oncology*. Apr 2006;16(2):77-84.
44. Kavanagh BD, Schefter TE, Cardenes HR, et al. Interim analysis of a prospective phase I/II trial of SBRT for liver metastases. *Acta oncologica*. 2006;45(7):848-855.
45. Kavanagh BD, Timmerman RD. Stereotactic radiosurgery and stereotactic body radiation therapy: an overview of technical considerations and clinical applications. *Hematology/oncology clinics of North America*. Feb 2006;20(1):87-95.
46. Lo SS, Abdulrahman R, Desrosiers PM, et al. The role of Gamma Knife Radiosurgery in the management of unresectable gross disease or gross residual disease after surgery in ependymoma. *Journal of neuro-oncology*. Aug 2006;79(1):51-56.
47. Lotan Y, Stanfield J, Cho LC, et al. Efficacy of high dose per fraction radiation for implanted human prostate cancer in a nude mouse model. *The Journal of urology*. May 2006;175(5):1932-1936.
48. Saveyn H, Van der Meer P, Pauwels G, Timmerman R. Bench- and pilot-scale sludge electrodeposition in a diaphragm filter press. *Water science and technology : a journal of the International Association on Water Pollution Research*. 2006;54(9):53-60.

49. Timmerman R, Galvin J, Michalski J, et al. Accreditation and quality assurance for Radiation Therapy Oncology Group: Multicenter clinical trials using Stereotactic Body Radiation Therapy in lung cancer. *Acta oncologica*. 2006;45(7):779-786.
50. Timmerman R, McGarry R, Yiannoutsos C, et al. Excessive toxicity when treating central tumors in a phase II study of stereotactic body radiation therapy for medically inoperable early-stage lung cancer. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Oct 20 2006;24(30):4833-4839.
51. Timmerman RD, Story M. Stereotactic body radiation therapy: a treatment in need of basic biological research. *Cancer journal*. Jan-Feb 2006;12(1):19-20.
52. Walsh L, Stanfield JL, Cho LC, et al. Efficacy of ablative high-dose-per-fraction radiation for implanted human renal cell cancer in a nude mouse model. *European urology*. Oct 2006;50(4):795-800; discussion 800.
53. Chang BK, Timmerman RD. Stereotactic body radiation therapy: a comprehensive review. *American journal of clinical oncology*. Dec 2007;30(6):637-644.
54. Fakiris AJ, Lo SS, Henderson MA, et al. Gamma-knife-based stereotactic radiosurgery for uveal melanoma. *Stereotactic and functional neurosurgery*. 2007;85(2-3):106-112.
55. Forquer JA, Harkenrider M, Fakiris AJ, et al. Brain metastasis from non-seminomatous germ cell tumor of the testis. *Expert review of anticancer therapy*. Nov 2007;7(11):1567-1580.
56. Henderson MA, Valluri S, Lo SS, et al. Gamma knife radiosurgery in the treatment of choroidal neovascularization (wet-type macular degeneration). *Stereotactic and functional neurosurgery*. 2007;85(1):11-17.
57. Hoopes DJ, Tann M, Fletcher JW, et al. FDG-PET and stereotactic body radiotherapy (SBRT) for stage I non-small-cell lung cancer. *Lung cancer*. May 2007;56(2):229-234.
58. Johnson AJ, Ying J, El Gammal T, Timmerman RD, Kim RY, Littenberg B. Which MR imaging sequences are necessary in determining the need for radiation therapy for cord compression? A prospective study. *AJNR. American journal of neuroradiology*. Jan 2007;28(1):32-37.
59. Murray B, Forster K, Timmerman R. Frame-based immobilization and targeting for stereotactic body radiation therapy. *Medical dosimetry : official journal of the American Association of Medical Dosimetrists*. Summer 2007;32(2):86-91.
60. Papiez L, McMahon R, Timmerman R. 4D DMLC leaf sequencing to minimize organ at risk dose in moving anatomy. *Med Phys*. Dec 2007;34(12):4952-4956.
61. Timmerman R, Abdulrahman R, Kavanagh BD, Meyer JL. Lung cancer: a model for implementing stereotactic body radiation therapy into practice. *Frontiers of radiation therapy and oncology*. 2007;40:368-385.
62. Timmerman R, Bastasch M, Saha D, Abdulrahman R, Hittson W, Story M. Optimizing dose and fractionation for stereotactic body radiation therapy. Normal tissue and tumor control effects with large dose per fraction. *Frontiers of radiation therapy and oncology*. 2007;40:352-365.
63. Timmerman RA. A mobility protocol for critically ill adults. *Dimensions of critical care nursing : DCCN*. Sep-Oct 2007;26(5):175-179; quiz 180-171.
64. Timmerman RD, Kavanagh BD, Cho LC, Papiez L, Xing L. Stereotactic body radiation therapy in multiple organ sites. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Mar 10 2007;25(8):947-952.
65. Timmerman RD, Park C, Kavanagh BD. The North American experience with stereotactic body radiation therapy in non-small cell lung cancer. *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*. Jul 2007;2(7 Suppl 3):S101-112.
66. Tinnel B, Mendonca MS, Henderson M, et al. Pulmonary hilar stereotactic body radiation therapy in the rat. *Technology in cancer research & treatment*. Oct 2007;6(5):425-431.
67. Witt TC, Lo SS, Timmerman RD. Successful treatment of a skull base malignant rhabdoid tumor with surgery, chemotherapy and gamma Knife-based stereotactic radiosurgery in a young child. *Stereotactic and functional neurosurgery*. 2007;85(6):310-313.
68. Heinzerling JH, Anderson JF, Papiez L, et al. Four-dimensional computed tomography scan analysis of tumor and organ motion at varying levels of abdominal compression during stereotactic treatment of lung and liver. *International journal of radiation oncology, biology, physics*. Apr 1 2008;70(5):1571-1578.

69. Heinzerling JH, Papiez L, Chien S, et al. Stereotactic body radiation therapy: evaluation of setup accuracy and targeting methods for a new couch integrated immobilization system. *Technology in cancer research & treatment*. Jun 2008;7(3):197-206.
70. Henderson M, McGarry R, Yiannoutsos C, et al. Baseline pulmonary function as a predictor for survival and decline in pulmonary function over time in patients undergoing stereotactic body radiotherapy for the treatment of stage I non-small-cell lung cancer. *International journal of radiation oncology, biology, physics*. Oct 1 2008;72(2):404-409.
71. Jakacki RI, Yates A, Blaney SM, et al. A phase I trial of temozolomide and lomustine in newly diagnosed high-grade gliomas of childhood. *Neuro-oncology*. Aug 2008;10(4):569-576.
72. Lo SS, Cardenes HR, Teh BS, et al. Stereotactic body radiation therapy for nonpulmonary primary tumors. *Expert review of anticancer therapy*. Dec 2008;8(12):1939-1951.
73. Lo SS, Fakiris AJ, Abdulrahman R, et al. Role of stereotactic radiosurgery and fractionated stereotactic radiotherapy in pediatric brain tumors. *Expert review of neurotherapeutics*. Jan 2008;8(1):121-132.
74. Lo SS, Fakiris AJ, Papiez L, et al. Stereotactic body radiation therapy for early-stage non-small-cell lung cancer. *Expert review of anticancer therapy*. Jan 2008;8(1):87-98.
75. Papiez L, Timmerman R. Hypofractionation in radiation therapy and its impact. *Med Phys*. Jan 2008;35(1):112-118.
76. Park C, Papiez L, Zhang S, Story M, Timmerman RD. Universal survival curve and single fraction equivalent dose: useful tools in understanding potency of ablative radiotherapy. *International journal of radiation oncology, biology, physics*. Mar 1 2008;70(3):847-852.
77. Timmerman RD. An overview of hypofractionation and introduction to this issue of seminars in radiation oncology. *Seminars in radiation oncology*. Oct 2008;18(4):215-222.
78. Tinnel BA, Henderson MA, Witt TC, et al. Endocrine response after gamma knife-based stereotactic radiosurgery for secretory pituitary adenoma. *Stereotactic and functional neurosurgery*. 2008;86(5):292-296.
79. Fakiris AJ, McGarry RC, Yiannoutsos CT, et al. Stereotactic body radiation therapy for early-stage non-small-cell lung carcinoma: four-year results of a prospective phase II study. *International journal of radiation oncology, biology, physics*. Nov 1 2009;75(3):677-682.
80. Forquer JA, Fakiris AJ, Timmerman RD, et al. Brachial plexopathy from stereotactic body radiotherapy in early-stage NSCLC: dose-limiting toxicity in apical tumor sites. *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*. Dec 2009;93(3):408-413.
81. Henderson MA, Fakiris AJ, Timmerman RD, Worth RM, Lo SS, Witt TC. Gamma knife stereotactic radiosurgery for low-grade astrocytomas. *Stereotactic and functional neurosurgery*. 2009;87(3):161-167.
82. Lo SS, Fakiris AJ, Teh BS, et al. Stereotactic body radiation therapy for oligometastases. *Expert review of anticancer therapy*. May 2009;9(5):621-635.
83. Timmerman RD, Bizekis CS, Pass HI, et al. Local surgical, ablative, and radiation treatment of metastases. *CA: a cancer journal for clinicians*. May-Jun 2009;59(3):145-170.
84. Xiao Y, Papiez L, Paulus R, et al. Dosimetric evaluation of heterogeneity corrections for RTOG 0236: stereotactic body radiotherapy of inoperable stage I-II non-small-cell lung cancer. *International journal of radiation oncology, biology, physics*. Mar 15 2009;73(4):1235-1242.
85. Benedict SH, Yenice KM, Followill D, et al. Stereotactic body radiation therapy: the report of AAPM Task Group 101. *Med Phys*. Aug 2010;37(8):4078-4101.
86. Ding C, Chang CH, Haslam J, Timmerman R, Solberg T. A dosimetric comparison of stereotactic body radiation therapy techniques for lung cancer: robotic versus conventional linac-based systems. *Journal of applied clinical medical physics*. Jun 29 2010;11(3):3223.
87. Hadziahmetovic M, Loo BW, Timmerman RD, et al. Stereotactic body radiation therapy (stereotactic ablative radiotherapy) for stage I non-small cell lung cancer--updates of radiobiology, techniques, and clinical outcomes. *Discovery medicine*. May 2010;9(48):411-417.
88. Henderson MA, Hoopes DJ, Fletcher JW, et al. A pilot trial of serial 18F-fluorodeoxyglucose positron emission tomography in patients with medically inoperable stage I non-small-cell lung cancer treated with hypofractionated stereotactic body radiotherapy. *International journal of radiation oncology, biology, physics*. Mar 1 2010;76(3):789-795.
89. Huang L, Park K, Boike T, et al. A study on the dosimetric accuracy of treatment planning for stereotactic body radiation therapy of lung cancer using average and maximum intensity projection images.

- Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology.* Jul 2010;96(1):48-54.
90. Lennerz JK, Timmerman RJ, Grange DK, DeBaun MR, Feinberg AP, Zehnbauser BA. Addition of H19 'loss of methylation testing' for Beckwith-Wiedemann syndrome (BWS) increases the diagnostic yield. *The Journal of molecular diagnostics : JMD.* Sep 2010;12(5):576-588.
  91. Lo SS, Fakiris AJ, Chang EL, et al. Stereotactic body radiation therapy: a novel treatment modality. *Nature reviews. Clinical oncology.* Jan 2010;7(1):44-54.
  92. Lo SS, Teh BS, Mayr NA, et al. Stereotactic body radiation therapy for oligometastases. *Discovery medicine.* Sep 2010;10(52):247-254.
  93. Marks LB, Bentzen SM, Deasy JO, et al. Radiation dose-volume effects in the lung. *International journal of radiation oncology, biology, physics.* Mar 1 2010;76(3 Suppl):S70-76.
  94. Potters L, Gaspar LE, Kavanagh B, et al. American Society for Therapeutic Radiology and Oncology (ASTRO) and American College of Radiology (ACR) practice guidelines for image-guided radiation therapy (IGRT). *International journal of radiation oncology, biology, physics.* Feb 1 2010;76(2):319-325.
  95. Potters L, Kavanagh B, Galvin JM, et al. American Society for Therapeutic Radiology and Oncology (ASTRO) and American College of Radiology (ACR) practice guideline for the performance of stereotactic body radiation therapy. *International journal of radiation oncology, biology, physics.* Feb 1 2010;76(2):326-332.
  96. Saha D, Watkins L, Yin Y, et al. An orthotopic lung tumor model for image-guided microirradiation in rats. *Radiation research.* Jul 2010;174(1):62-71.
  97. Teh BS, Ishiyama H, Mathews T, et al. Stereotactic body radiation therapy (SBRT) for genitourinary malignancies. *Discovery medicine.* Sep 2010;10(52):255-262.
  98. Timmerman R, Paulus R, Galvin J, et al. Stereotactic body radiation therapy for inoperable early stage lung cancer. *Jama.* Mar 17 2010;303(11):1070-1076.
  99. Timmerman RD. Surgery versus stereotactic body radiation therapy for early-stage lung cancer: who's down for the count? *Journal of clinical oncology : official journal of the American Society of Clinical Oncology.* Feb 20 2010;28(6):907-909.
  100. Zimmermann F, Wulf J, Lax I, et al. Stereotactic body radiation therapy for early non-small cell lung cancer. *Frontiers of radiation therapy and oncology.* 2010;42:94-114.
  101. Barriger RB, Chang A, Lo SS, et al. Phosphorus-32 therapy for cystic craniopharyngiomas. *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology.* Feb 2011;98(2):207-212.
  102. Boike TP, Lotan Y, Cho LC, et al. Phase I dose-escalation study of stereotactic body radiation therapy for low- and intermediate-risk prostate cancer. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology.* May 20 2011;29(15):2020-2026.
  103. Finkelstein SE, Timmerman R, McBride WH, et al. The confluence of stereotactic ablative radiotherapy and tumor immunology. *Clinical & developmental immunology.* 2011;2011:439752.
  104. Heinzerling JH, Bland R, Mansour JC, et al. Dosimetric and motion analysis of margin-intensive therapy by stereotactic ablative radiotherapy for resectable pancreatic cancer. *Radiation oncology.* Oct 28 2011;6:146.
  105. Heinzerling JH, Kavanagh B, Timmerman RD. Stereotactic ablative radiation therapy for primary lung tumors. *Cancer journal.* Jan-Feb 2011;17(1):28-32.
  106. Kavanagh BD, Timmerman R, Meyer JL. The expanding roles of stereotactic body radiation therapy and oligofractionation: toward a new practice of radiotherapy. *Frontiers of radiation therapy and oncology.* 2011;43:370-381.
  107. Kong FM, Ritter T, Quint DJ, et al. Consideration of dose limits for organs at risk of thoracic radiotherapy: atlas for lung, proximal bronchial tree, esophagus, spinal cord, ribs, and brachial plexus. *International journal of radiation oncology, biology, physics.* Dec 1 2011;81(5):1442-1457.
  108. Lo SS, Moffatt-Bruce SD, Dawson LA, et al. The role of local therapy in the management of lung and liver oligometastases. *Nature reviews. Clinical oncology.* May 24 2011;8(7):405-416.
  109. Lo SS, Teh BS, Wang JZ, et al. Imaging changes after stereotactic body radiation therapy for lung and liver tumors. *Expert review of anticancer therapy.* Apr 2011;11(4):613-620.
  110. Loo BW, Jr., Chang JY, Dawson LA, et al. Stereotactic ablative radiotherapy: what's in a name? *Practical radiation oncology.* Jan-Mar 2011;1(1):38-39.

111. McHaffie DR, Chabot P, Dagnault A, et al. Safety and feasibility of motexafin gadolinium administration with whole brain radiation therapy and stereotactic radiosurgery boost in the treatment of  $\leq 6$  brain metastases: a multi-institutional phase II trial. *Journal of neuro-oncology*. Nov 2011;105(2):301-308.
112. Meyer J, Timmerman R. Stereotactic ablative radiotherapy in the framework of classical radiobiology: response to Drs. Brown, Diehn, and Loo. *International journal of radiation oncology, biology, physics*. Apr 1 2011;79(5):1599-1600; author reply 1600.
113. Nagata Y, Wulf J, Lax I, et al. Stereotactic radiotherapy of primary lung cancer and other targets: results of consultant meeting of the International Atomic Energy Agency. *International journal of radiation oncology, biology, physics*. Mar 1 2011;79(3):660-669.
114. Rule W, Timmerman R, Tong L, et al. Phase I dose-escalation study of stereotactic body radiotherapy in patients with hepatic metastases. *Annals of surgical oncology*. Apr 2011;18(4):1081-1087.
115. Ryu S, Pugh SL, Gerszten PC, et al. RTOG 0631 Phase II/III Study of Image-Guided Stereotactic Radiosurgery for Localized (1-3) Spine Metastases: Phase II Results. *International journal of radiation oncology, biology, physics*. Oct 1 2011;81(2):S131-S132.
116. Stanic S, Boike TP, Rule WG, Timmerman RD. Rib fracture following stereotactic body radiotherapy: a potential pitfall. *Clinical nuclear medicine*. Nov 2011;36(11):e168-170.
117. Timmerman R, Bastasch M, Saha D, Abdulrahman R, Hittson W, Story M. Stereotactic body radiation therapy: normal tissue and tumor control effects with large dose per fraction. *Frontiers of radiation therapy and oncology*. 2011;43:382-394.
118. Timmerman R, Heinzerling J, Abdulrahman R, Choy H, Meyer JL. Stereotactic body radiation therapy for thoracic cancers: recommendations for patient selection, setup and therapy. *Frontiers of radiation therapy and oncology*. 2011;43:395-411.
119. Timmerman RD, Fernando HC. From the guest editors: treatment of early-stage lung cancer. *Cancer journal*. Jan-Feb 2011;17(1):1-2.
120. Bao JJ, Mansour JC, Timmerman RD, Kirane A, Ewing GE, Schwarz RE. Intraduodenal sarcoma recurrence of retroperitoneal origin: an unusual cause for a duodenal obstruction. *World journal of surgical oncology*. Apr 20 2012;10:59.
121. Bekelman JE, Deye JA, Vikram B, et al. Redesigning radiotherapy quality assurance: opportunities to develop an efficient, evidence-based system to support clinical trials--report of the National Cancer Institute Work Group on Radiotherapy Quality Assurance. *International journal of radiation oncology, biology, physics*. Jul 1 2012;83(3):782-790.
122. Chun SG, Choe KS, Iyengar P, Yordy JS, Timmerman RD. Isolated central nervous system progression on Crizotinib: an Achilles heel of non-small cell lung cancer with EML4-ALK translocation? *Cancer biology & therapy*. Dec 2012;13(14):1376-1383.
123. Ding C, Solberg T, Xing L, Heinzerling J, Timmerman R. SU-E-T-451: Optimization of Normalized Prescription Isodose Selection for Stereotactic Radiation Therapy: Conventional Vs. Robotic Linac. *Med Phys*. Jun 2012;39(6Part17):3808-3809.
124. Diot Q, Kavanagh B, Timmerman R, Miften M. Biological-based optimization and volumetric modulated arc therapy delivery for stereotactic body radiation therapy. *Med Phys*. Jan 2012;39(1):237-245.
125. Faught A, Kry S, Luo D, et al. SU-E-T-190: Design, Development, and Evaluation of a Modified, Anthropomorphic, Head, Quality Assurance Phantom for Use in Stereotactic Radiosurgery. *Med Phys*. Jun 2012;39(6Part12):3746-3747.
126. Fernando HC, Timmerman R. American College of Surgeons Oncology Group Z4099/Radiation Therapy Oncology Group 1021: a randomized study of sublobar resection compared with stereotactic body radiotherapy for high-risk stage I non-small cell lung cancer. *The Journal of thoracic and cardiovascular surgery*. Sep 2012;144(3):S35-38.
127. Hodges JC, Lotan Y, Boike TP, Benton R, Barrier A, Timmerman RD. Cost-effectiveness analysis of stereotactic body radiation therapy versus intensity-modulated radiation therapy: an emerging initial radiation treatment option for organ-confined prostate cancer. *Journal of oncology practice*. May 2012;8(3 Suppl):e31s-37s.
128. Hodges JC, Lotan Y, Boike TP, Benton R, Barrier A, Timmerman RD. Cost-effectiveness analysis of SBRT versus IMRT: an emerging initial radiation treatment option for organ-confined prostate cancer. *The American journal of managed care*. May 1 2012;18(5):e186-193.

129. Iyengar P, Timmerman RD. Stereotactic ablative radiotherapy for non-small cell lung cancer: rationale and outcomes. *Journal of the National Comprehensive Cancer Network : JNCCN*. Dec 1 2012;10(12):1514-1520.
130. Jones BL, Gan G, Diot Q, Kavanagh B, Timmerman RD, Miften M. Dosimetric and deformation effects of image-guided interventions during stereotactic body radiation therapy of the prostate using an endorectal balloon. *Med Phys*. Jun 2012;39(6):3080-3088.
131. Kong FM, Ritter T, Quint D, et al. In reply to Zagar and Marks. *International journal of radiation oncology, biology, physics*. Oct 1 2012;84(2):305-306.
132. Li J, Galvin J, Harrison A, Timmerman R, Yu Y, Xiao Y. Dosimetric verification using monte carlo calculations for tissue heterogeneity-corrected conformal treatment plans following RTOG 0813 dosimetric criteria for lung cancer stereotactic body radiotherapy. *International journal of radiation oncology, biology, physics*. Oct 1 2012;84(2):508-513.
133. Becerra CR, Hanna N, McCollum AD, et al. A phase II study with cetuximab and radiation therapy for patients with surgically resectable esophageal and GE junction carcinomas: Hoosier Oncology Group G05-92. *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*. Nov 2013;8(11):1425-1429.
134. Cho LC, Timmerman R, Kavanagh B. Hypofractionated external-beam radiotherapy for prostate cancer. *Prostate cancer*. 2013;2013:103547.
135. Crabtree T, Puri V, Timmerman R, et al. Treatment of stage I lung cancer in high-risk and inoperable patients: comparison of prospective clinical trials using stereotactic body radiotherapy (RTOG 0236), sublobar resection (ACOSOG Z4032), and radiofrequency ablation (ACOSOG Z4033). *The Journal of thoracic and cardiovascular surgery*. Mar 2013;145(3):692-699.
136. Ding C, Solberg TD, Hrycushko B, Medin P, Whitworth L, Timmerman RD. Multi-staged robotic stereotactic radiosurgery for large cerebral arteriovenous malformations. *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*. Dec 2013;109(3):452-456.
137. Ding C, Solberg TD, Hrycushko B, Xing L, Heinzerling J, Timmerman RD. Optimization of normalized prescription isodose selection for stereotactic body radiation therapy: conventional vs robotic linac. *Med Phys*. May 2013;40(5):051705.
138. Faught AM, Kry SF, Luo D, et al. Development of a modified head and neck quality assurance phantom for use in stereotactic radiosurgery trials. *Journal of applied clinical medical physics*. Jul 8 2013;14(4):4313.
139. Foster R, Meyer J, Iyengar P, et al. Localization accuracy and immobilization effectiveness of a stereotactic body frame for a variety of treatment sites. *International journal of radiation oncology, biology, physics*. Dec 1 2013;87(5):911-916.
140. Iyengar P, Westover K, Timmerman RD. Stereotactic ablative radiotherapy (SABR) for non-small cell lung cancer. *Seminars in respiratory and critical care medicine*. Dec 2013;34(6):845-854.
141. Jacobs C, Kim DW, Straka C, Timmerman RD, Brugarolas J. Prolonged survival of a patient with papillary renal cell carcinoma and brain metastases using pazopanib. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Mar 1 2013;31(7):e114-117.
142. Koral K, Bowers DC, Timmerman R. Reply to "survival analysis for apparent diffusion coefficient measures in children with embryonal brain tumors," by Grech-Sollars et al. *Neuro-oncology*. Jan 2013;15(1):28.
143. Lo SS, Sahgal A, Chang EL, et al. Serious complications associated with stereotactic ablative radiotherapy and strategies to mitigate the risk. *Clinical oncology*. Jun 2013;25(6):378-387.
144. Straka C, Kim DW, Timmerman RD, Pedrosa I, Jacobs C, Brugarolas J. Ablation of a site of progression with stereotactic body radiation therapy extends sunitinib treatment from 14 to 22 months. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Aug 10 2013;31(23):e401-403.
145. Timmerman RD, Fernando HC. A radiation oncologist's and thoracic surgeon's view on the role of stereotactic ablative radiotherapy for operable lung cancer. *Seminars in thoracic and cardiovascular surgery*. Spring 2013;25(1):8-13.
146. Cannon NA, Iyengar P, Choy H, Timmerman R, Meyer J. Stereotactic ablative body radiation therapy for tumors in the lung in octogenarians: a retrospective single institution study. *BMC cancer*. Dec 17 2014;14:971.

147. Chun SG, Nedzi LA, Choe KS, et al. A retrospective analysis of tumor volumetric responses to five-fraction stereotactic radiotherapy for paragangliomas of the head and neck (glomus tumors). *Stereotactic and functional neurosurgery*. 2014;92(3):153-159.
148. Iyengar P, Kavanagh BD, Wardak Z, et al. Phase II trial of stereotactic body radiation therapy combined with erlotinib for patients with limited but progressive metastatic non-small-cell lung cancer. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Dec 1 2014;32(34):3824-3830.
149. Kim DW, Cho LC, Straka C, et al. Predictors of rectal tolerance observed in a dose-escalated phase 1-2 trial of stereotactic body radiation therapy for prostate cancer. *International journal of radiation oncology, biology, physics*. Jul 1 2014;89(3):509-517.
150. Kim DW, Straka C, Cho LC, Timmerman RD. Stereotactic Body Radiation Therapy for Prostate Cancer: Review of Experience of a Multicenter Phase I/II Dose-Escalation Study. *Frontiers in oncology*. 2014;4:319.
151. Ryu S, Pugh SL, Gerszten PC, et al. RTOG 0631 phase 2/3 study of image guided stereotactic radiosurgery for localized (1-3) spine metastases: phase 2 results. *Practical radiation oncology*. Mar-Apr 2014;4(2):76-81.
152. Stanic S, Paulus R, Timmerman RD, et al. No clinically significant changes in pulmonary function following stereotactic body radiation therapy for early- stage peripheral non-small cell lung cancer: an analysis of RTOG 0236. *International journal of radiation oncology, biology, physics*. Apr 1 2014;88(5):1092-1099.
153. Timmerman RD, Herman J, Cho LC. Emergence of stereotactic body radiation therapy and its impact on current and future clinical practice. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Sep 10 2014;32(26):2847-2854.
154. Cannon NA, Meyer J, Iyengar P, et al. Neutrophil-lymphocyte and platelet-lymphocyte ratios as prognostic factors after stereotactic radiation therapy for early-stage non-small-cell lung cancer. *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*. Feb 2015;10(2):280-285.
155. Chetty IJ, Martel MK, Jaffray DA, et al. Technology for Innovation in Radiation Oncology. *International journal of radiation oncology, biology, physics*. Nov 1 2015;93(3):485-492.
156. Chun SG, Iyengar P, Gerber DE, Hogan RN, Timmerman RD. Optic neuropathy and blindness associated with crizotinib for non-small-cell lung cancer with EML4-ALK translocation. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Feb 10 2015;33(5):e25-26.
157. Folkert MR, Timmerman R. Review of treatment options for oligometastatic non-small cell lung cancer. *Clinical advances in hematology & oncology : H&O*. Mar 2015;13(3):186-193.
158. Hannan R, Margulis V, Chun SG, et al. Stereotactic radiation therapy of renal cancer inferior vena cava tumor thrombus. *Cancer biology & therapy*. 2015;16(5):657-661.
159. Laine AM, Pompos A, Timmerman R, et al. The Role of Hypofractionated Radiation Therapy with Photons, Protons, and Heavy Ions for Treating Extracranial Lesions. *Frontiers in oncology*. 2015;5:302.
160. Lo SS, Slotman BJ, Lock M, et al. The development of stereotactic body radiotherapy in the past decade: a global perspective. *Future oncology*. Sep 4 2015.
161. Timmerman RD. The Quality of Toxicity Reporting and the Story of the Lung SBRT "No-Fly Zone". In Regard to Oskan. *International journal of radiation oncology, biology, physics*. Nov 1 2015;93(3):726-727.
162. Videtic GM, Hu C, Singh AK, et al. A Randomized Phase 2 Study Comparing 2 Stereotactic Body Radiation Therapy Schedules for Medically Inoperable Patients With Stage I Peripheral Non-Small Cell Lung Cancer: NRG Oncology RTOG 0915 (NCCTG N0927). *International journal of radiation oncology, biology, physics*. Nov 15 2015;93(4):757-764.
163. Wallace AN, Robinson CG, Meyer J, et al. The Metastatic Spine Disease Multidisciplinary Working Group Algorithms. *The oncologist*. Oct 2015;20(10):1205-1215.
164. Wardak Z, Meyer J, Ghayee H, Wilfong L, Timmerman R. Adrenal insufficiency after stereotactic body radiation therapy for bilateral adrenal metastases. *Practical radiation oncology*. May-Jun 2015;5(3):e177-181.
165. Westover KD, Iyengar P, Sharma AN, Timmerman R. SABR for aggressive local therapy of metastatic cancer: A new paradigm for metastatic non-small cell lung cancer. *Lung cancer*. Aug 2015;89(2):87-93.

166. Westover KD, Loo BW, Jr., Gerber DE, et al. Precision Hypofractionated Radiation Therapy in Poor Performing Patients With Non-Small Cell Lung Cancer: Phase 1 Dose Escalation Trial. *International journal of radiation oncology, biology, physics*. Sep 1 2015;93(1):72-81.
167. Zhen H, Hrycushko B, Lee H, et al. Dosimetric comparison of Acuros XB with collapsed cone convolution/superposition and anisotropic analytic algorithm for stereotactic ablative radiotherapy of thoracic spinal metastases. *Journal of applied clinical medical physics*. Jul 8 2015;16(4):181-192.
168. Al-Hallaq HA, Chmura S, Salama JK, et al. Rationale of technical requirements for NRG-BR001: The first NCI-sponsored trial of SBRT for the treatment of multiple metastases. *Practical radiation oncology*. Nov - Dec 2016;6(6):e291-e298.
169. Flores BC, Patel AR, Timmerman RD, Barnett SL. From Patchell to Brown: An Evidence-Based Evolution of the Role of Radiotherapy on the Management of Brain Metastases. *World neurosurgery*. Jan 2016;85:10-14.
170. Hannan R, Tumati V, Xie XJ, et al. Stereotactic body radiation therapy for low and intermediate risk prostate cancer-Results from a multi-institutional clinical trial. *European journal of cancer*. May 2016;59:142-151.
171. Laine A, Pompos A, Story M, Jiang S, Timmerman R, Choy H. International Symposium on Ion Therapy: Planning the First Hospital-Based Heavy Ion Therapy Center in the United States. *International journal of particle therapy*. Winter 2016;2(3):468-471.
172. Liu Y, Stojadinovic S, Hrycushko B, et al. Automatic metastatic brain tumor segmentation for stereotactic radiosurgery applications. *Physics in medicine and biology*. Dec 21 2016;61(24):8440-8461.
173. Maquilan G, Timmerman R. Stereotactic Body Radiation Therapy for Early-Stage Lung Cancer. *Cancer journal*. Jul-Aug 2016;22(4):274-279.
174. Meyer JJ, Foster RD, Lev-Cohain N, et al. A Phase I Dose-Escalation Trial of Single-Fraction Stereotactic Radiation Therapy for Liver Metastases. *Annals of surgical oncology*. Jan 2016;23(1):218-224.
175. Modiri A, Gu X, Hagan A, et al. Inverse 4D conformal planning for lung SBRT using particle swarm optimization. *Physics in medicine and biology*. Aug 21 2016;61(16):6181-6202.
176. Moghanaki D, Timmerman RD, Slatore CG, Niewoehner DE, Karas TZ. In Regard to Valle et al. *International journal of radiation oncology, biology, physics*. Oct 1 2016;96(2):482-483.
177. Wardak Z, Augustyn A, Zhu H, et al. Pre-treatment factors associated with detecting additional brain metastases at stereotactic radiosurgery. *Journal of neuro-oncology*. Jun 2016;128(2):251-257.
178. Zhang Z, Wodzak M, Belzile O, et al. Effective Rat Lung Tumor Model for Stereotactic Body Radiation Therapy. *Radiation research*. Jun 2016;185(6):616-622.
179. Zhou Z, Folkert M, Cannon N, et al. Predicting distant failure in early stage NSCLC treated with SBRT using clinical parameters. *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*. Jun 2016;119(3):501-504.
180. Chun SG, Hu C, Choy H, et al. Impact of Intensity-Modulated Radiation Therapy Technique for Locally Advanced Non-Small-Cell Lung Cancer: A Secondary Analysis of the NRG Oncology RTOG 0617 Randomized Clinical Trial. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Jan 2017;35(1):56-62.
181. Cremonesi M, Garibaldi C, Timmerman R, et al. Interim (18)F-FDG-PET/CT during chemo-radiotherapy in the management of oesophageal cancer patients. A systematic review. *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*. Nov 2017;125(2):200-212.
182. Cremonesi M, Gilardi L, Ferrari ME, et al. Role of interim (18)F-FDG-PET/CT for the early prediction of clinical outcomes of Non-Small Cell Lung Cancer (NSCLC) during radiotherapy or chemo-radiotherapy. A systematic review. *European journal of nuclear medicine and molecular imaging*. Oct 2017;44(11):1915-1927.
183. Desai NB, Laine AM, Timmerman RD. Stereotactic ablative body radiotherapy (SABR) for oligometastatic cancer. *The British journal of radiology*. Feb 2017;90(1070):20160500.
184. Ding C, Chun SG, Sumer BD, et al. Phantom-to-clinic development of hypofractionated stereotactic body radiotherapy for early-stage glottic laryngeal cancer. *Medical dosimetry : official journal of the American Association of Medical Dosimetrists*. Summer 2017;42(2):90-96.
185. Ding C, Hrycushko B, Whitworth L, et al. Multistage stereotactic radiosurgery for large cerebral arteriovenous malformations using the Gamma Knife platform. *Med Phys*. Oct 2017;44(10):5010-5019.

186. Folkert MR, Timmerman RD. Stereotactic ablative body radiosurgery (SABR) or Stereotactic body radiation therapy (SBRT). *Advanced drug delivery reviews*. Jan 15 2017;109:3-14.
187. Hrycushko BA, Chopra R, Sayre JW, et al. Local Hypothermia as a Radioprotector of the Rectal Wall During Prostate Stereotactic Body Radiation Therapy. *International journal of radiation oncology, biology, physics*. May 1 2017;98(1):75-82.
188. Jones RT, Hassan Rezaeian N, Desai NB, et al. Dosimetric comparison of rectal-sparing capabilities of rectal balloon vs injectable spacer gel in stereotactic body radiation therapy for prostate cancer: lessons learned from prospective trials. *Medical dosimetry : official journal of the American Association of Medical Dosimetrists*. Winter 2017;42(4):341-347.
189. Kim DN, Straka C, Cho LC, et al. Early and multiple PSA bounces can occur following high-dose prostate stereotactic body radiation therapy: Subset analysis of a phase 1/2 trial. *Practical radiation oncology*. Jan - Feb 2017;7(1):e43-e49.
190. Kim DWN, Medin PM, Timmerman RD. Emphasis on Repair, Not Just Avoidance of Injury, Facilitates Prudent Stereotactic Ablative Radiotherapy. *Seminars in radiation oncology*. Oct 2017;27(4):378-392.
191. Le AH, Stojadinovic S, Timmerman R, et al. Real-Time Whole-Brain Radiation Therapy: A Single-Institution Experience. *International journal of radiation oncology, biology, physics*. Dec 28 2017.
192. Liu Y, Stojadinovic S, Hrycushko B, et al. A deep convolutional neural network-based automatic delineation strategy for multiple brain metastases stereotactic radiosurgery. *PloS one*. 2017;12(10):e0185844.
193. Modiri A, Sabouri P, Gu X, Timmerman R, Sawant A. Inversed-Planned Respiratory Phase Gating in Lung Conformal Radiation Therapy. *International journal of radiation oncology, biology, physics*. Oct 1 2017;99(2):317-324.
194. Rahimi A, Thomas K, Spangler A, et al. Preliminary Results of a Phase 1 Dose-Escalation Trial for Early-Stage Breast Cancer Using 5-Fraction Stereotactic Body Radiation Therapy for Partial-Breast Irradiation. *International journal of radiation oncology, biology, physics*. May 1 2017;98(1):196-205 e192.
195. Rahimi A, Timmerman R. In Reply to Gerber et al. *International journal of radiation oncology, biology, physics*. Oct 1 2017;99(2):499-500.
196. Rahimi A, Timmerman R. New Techniques for Irradiating Early Stage Breast Cancer: Stereotactic Partial Breast Irradiation. *Seminars in radiation oncology*. Jul 2017;27(3):279-288.
197. Rahimi A, Timmerman R. Ablative Therapy: A Reasonable Approach. *International journal of radiation oncology, biology, physics*. Mar 1 2017;97(3):448-449.
198. Ritter TA, Matuszak M, Chetty IJ, et al. Application of Critical Volume-Dose Constraints for Stereotactic Body Radiation Therapy in NRG Radiation Therapy Trials. *International journal of radiation oncology, biology, physics*. May 1 2017;98(1):34-36.
199. Schwartz DL, Sosa A, Chun SG, et al. SBRT for early-stage glottic larynx cancer-Initial clinical outcomes from a phase I clinical trial. *PloS one*. 2017;12(3):e0172055.
200. Videtic GMM, Donington J, Giuliani M, et al. Stereotactic body radiation therapy for early-stage non-small cell lung cancer: Executive Summary of an ASTRO Evidence-Based Guideline. *Practical radiation oncology*. Sep - Oct 2017;7(5):295-301.
201. Wang CJ, Christie A, Lin MH, et al. Safety and Efficacy of Stereotactic Ablative Radiation Therapy for Renal Cell Carcinoma Extracranial Metastases. *International journal of radiation oncology, biology, physics*. May 1 2017;98(1):91-100.
202. Zhen X, Zhao B, Wang Z, et al. Comprehensive target geometric errors and margin assessment in stereotactic partial breast irradiation. *Radiation oncology*. Sep 11 2017;12(1):151.
203. Zhou Z, Folkert M, Iyengar P, et al. Multi-objective radiomics model for predicting distant failure in lung SBRT. *Physics in medicine and biology*. Jun 7 2017;62(11):4460-4478.
204. Chiu TD, Parsons D, Zhang Y, et al. Prototype volumetric ultrasound tomography image guidance system for prone stereotactic partial breast irradiation: proof-of-concept. *Physics in medicine and biology*. Mar 1 2018;63(5):055004.
205. Ding C, Saw CB, Timmerman RD. Cyberknife stereotactic radiosurgery and radiation therapy treatment planning system. *Medical dosimetry : official journal of the American Association of Medical Dosimetrists*. Mar 28 2018.
206. Iyengar P, Wardak Z, Gerber DE, et al. Consolidative Radiotherapy for Limited Metastatic Non-Small-Cell Lung Cancer: A Phase 2 Randomized Clinical Trial. *JAMA oncology*. Jan 11 2018;4(1):e173501.

207. Nguyen TK, Senan S, Bradley JD, et al. Optimal imaging surveillance after stereotactic ablative radiation therapy for early-stage non-small cell lung cancer: Findings of an International Delphi Consensus Study. *Practical radiation oncology*. Mar - Apr 2018;8(2):e71-e78.
208. Yang M, Timmerman R. Stereotactic Ablative Radiotherapy Uncertainties: Delineation, Setup and Motion. *Seminars in radiation oncology*. Jun 2018;28(3):207-217.
209. Videtic GM, Paulus R, Singh AK, et al. Long term follow-up on NRG Oncology RTOG 0915 (NCCTG N0927): A randomized phase II study comparing 2 stereotactic body radiation therapy schedules for medically inoperable patients with stage I peripheral non-small cell lung cancer. *International journal of radiation oncology, biology, physics*. Dec 1 2018.
210. Timmerman RD, Paulus R, Pass HI, et al. Stereotactic Body Radiation Therapy for Operable Early-Stage Lung Cancer: Findings From the NRG Oncology RTOG 0618 Trial. *JAMA oncology*. Sep 1 2018;4(9):1263-1266.
211. Timmerman RD, Hu C, Michalski JM, et al. Long-term Results of Stereotactic Body Radiation Therapy in Medically Inoperable Stage I Non-Small Cell Lung Cancer. *JAMA oncology*. Sep 1 2018;4(9):1287-1288.
212. Timmerman R, Burm SM, Bajramovic JJ. An Overview of in vitro Methods to Study Microglia. *Frontiers in cellular neuroscience*. 2018;12:242.
213. Patel AR, Nedzi L, Lau S, et al. Neoadjuvant Stereotactic Radiosurgery Before Surgical Resection of Cerebral Metastases. *World neurosurgery*. Dec 2018;120:e480-e487.
214. Mohamad O, Diaz de Leon A, Schroeder S, et al. Safety and efficacy of concurrent immune checkpoint inhibitors and hypofractionated body radiotherapy. *Oncoimmunology*. 2018;7(7):e1440168.
215. Li S, Yang N, Li B, et al. A pilot study using kernelled support tensor machine for distant failure prediction in lung SBRT. *Medical image analysis*. Dec 2018;50:106-116.
216. Lammers A, Mitin T, Moghanaki D, et al. Lung cancer specialists' opinions on treatment for stage I non-small cell lung cancer: A multidisciplinary survey. *Advances in radiation oncology*. Apr-Jun 2018;3(2):125-129.
217. Kazemzadeh N, Modiri A, Samanta S, et al. Virtual Bronchoscopy-Guided Treatment Planning to Map and Mitigate Radiation-Induced Airway Injury in Lung SABR. *International journal of radiation oncology, biology, physics*. Sep 1 2018;102(1):210-218.
218. Hao H, Zhou Z, Li S, et al. Shell feature: a new radiomics descriptor for predicting distant failure after radiotherapy in non-small cell lung cancer and cervix cancer. *Physics in medicine and biology*. May 2 2018;63(9):095007.
219. Chen H, Lu W, Chen M, et al. A recursive ensemble organ segmentation (REOS) framework: application in brain radiotherapy. *Physics in medicine and biology*. Dec 12 2018.
220. Bowman IA, Bent A, Le T, et al. Improved Survival Outcomes for Kidney Cancer Patients With Brain Metastases. *Clinical genitourinary cancer*. Dec 5 2018.

## BOOKS

Kavanagh, B., Timmerman, R.D., editors, Stereotactic Body Radiation Therapy, Lippincott, Williams, and Wilkins, Baltimore, MD, 2005.<sup>208-220</sup>

Meyer, J, Kavanagh, B, Purdy, J, Timmerman, R, editors. IMRT – IGRT – SBRT: Advances in the Treatment Planning and Delivery of Radiotherapy, Karger, Basel, Switzerland, 2007

Urschel, HC, Luketich, JD, Papiez, L, Timmerman, RD, editors. Treating Tumors that Move with Respiration, Springer-Verlag, New York, NY, 2007.

Timmerman, R., Xing, L., editors. Image Guided and Adaptive Radiation Therapy, Lippincott, Williams, and Wilkins, Baltimore, MD, 2009.

## BOOK CHAPTERS

Nichols, C., Timmerman, R.D., Foster, R., Roth, B., Einhorn, L.H., “Neoplasms of the Testis,” In Cancer Medicine 4<sup>th</sup> Edition, Chapter 128, Williams & Wilkins, Baltimore, 1997, pp 2177-2214.

Nichols, C., Timmerman, R.D., Foster, R., Roth, B., Einhorn, L.H., "Neoplasms of the Testis," In Cancer Medicine 5<sup>th</sup> Edition, Chapter 110, B.C. Decker, Inc., Hamilton, Ontario, 2000, pp 1596-1621.

DesRosiers, P, Timmerman, R.D., "Primary Brain Tumors," In The Cambridge Handbook of Advanced Cancer Care, Cambridge University Press, March 2003, Chapter 35.

Hanna, N, Nichols, C., Timmerman, R., Foster, R, Roth, B, Einhorn, L., "Testis Cancer," In Cancer Medicine 6<sup>th</sup> Edition, Chapter 113, BC Decker, Inc., Hamilton, Ontario, 2003, pp 1747-1768.

Timmerman, R, and Lohr, F, "Normal Tissue Dose Constraints Applied in Stereotactic Body Radiation Therapy," In Stereotactic Body Radiation Therapy, Chapter 4, Lippincott, Williams, and Wilkins, Baltimore, MD, 2005, pp 29-37.

Papiez, L, Moskvin, V, and Timmerman, R, "Dosimetry of Stereotactic Body Radiation Therapy Treatments," In Stereotactic Body Radiation Therapy, Chapter 4, Lippincott, Williams, and Wilkins, Baltimore, MD, 2005, pp 57-68.

Timmerman, RD, Kavanagh, B, "Stereotactic Body Radiation Therapy: Toward the Proper Implementation of Technical and Biological Innovation," 2005 ACRO Practice Management Guidelines, American College of Radiation Oncology, Bethesda, MD, 2005.

Timmerman, R, and Wulf, J, "Extracranial Stereotactic Radiosurgery and Radiotherapy for Lung Tumors," In Extracranial Stereotactic Radiosurgery and Radiotherapy 1<sup>st</sup> Edition, BC Decker, Inc., Hamilton, Ontario, 2006, pp197-230.

Timmerman, RD, Kavanagh, B, "Stereotactic Body Radiation Therapy: Toward the Proper Implementation of Technical and Biological Innovation," 2006 ACRO Practice Management Guidelines, American College of Radiation Oncology, Bethesda, MD, 2006.

Kavanagh, BD, Bradley, JD, Timmerman, RD, "Stereotactic Irradiation of Tumors Outside the Central Nervous System," In Principles and Practice of Radiation Oncology 5<sup>th</sup> Edition, Lippincott, Williams, and Wilkins, Baltimore, MD, 2008.

Miksad R, Hanto D, Timmerman R, Come S. "Management of Isolated Liver Metastasis," In Diseases of the Breast, 4th Ed. Lippincott Williams & Wilkins, Baltimore, MD, 2009.

Timmerman, RD, Solberg, T, Kavanagh, BD, and Lo, SS, "Stereotactic Techniques for Lung Cancer Treatment," In Lung Cancer: Principles and Practice 4<sup>th</sup> Edition, Lippincott, Williams, and Wilkins, Baltimore, MD, 2010.

Heinzerling, JH, and Timmerman, RD, "Stereotactic Ablative Radiotherapy for Early Stage Lung Cancer," In Advances in Radiation Oncology in Lung Cancer, 2<sup>nd</sup> Edition, Springer, New York, NY, 2011.

Timmerman, RD, and Kavanagh, BD, "Stereotactic Body Radiation Therapy for Lung Cancer," In Lung Cancer, 3<sup>rd</sup> Edition, Blackwell, Malden, MA, 2011.

Lo, SS, Mayr, NA, and Timmerman, RD, "Stereotactic Radiation Therapy for Primary, Metastatic, and Recurrent Disease," In Lung Cancer, A Multidisciplinary Approach to Diagnosis and Management, Demos Medical, New York, NY, 2011.

Cho, LC, Fonteyne, V, DeNeve, W, Lo, SS, and Timmerman, RD, "Stereotactic Body Radiation Therapy," In Technical Basis of Radiation Therapy, 5<sup>th</sup> Edition, Springer, New York, NY, 2012.

Kavanagh, BD, Bradley, JD, Timmerman, RD, "Stereotactic Irradiation of Tumors Outside the Central Nervous System," *In Principles and Practice of Radiation Oncology 6<sup>th</sup> Edition*, Lippincott, Williams, and Wilkins, Baltimore, MD, 2013.

Miksad R, Hanto D, Timmerman R, Come S. "Management of Isolated Liver Metastasis," *In Diseases of the Breast*, 5th Ed. Lippincott Williams & Wilkins, Baltimore, MD, 2014.

Foster, RD, Ramirez, E, and Timmerman, RD, "Stereotactic Ablative Radiotherapy," *In Treatment Planning in Radiation Oncology, 4<sup>rd</sup> Edition*, Wolters Kluwer, Philadelphia, PA, 2016.

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