

College of Medicine *Curriculum Vitae*

John M. Buatti, M.D.

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I. Educational and Professional History

Education

Higher Education

1978–1982	B.S. (<i>biology & theology</i>)	Georgetown University, Washington D.C.
1982–1986	MD	Georgetown University, Washington D.C.

Postgraduate Medical Education

1986–1989	Internship & Residency	Internal Medicine, Georgetown University
1989–1993	Residency	Radiation Oncology, University of Arizona

Board Certification and Licensure

American Board of Internal Medicine	license 126587	<i>certified</i> September 1991
American Board of Radiology (Therapeutic)	<i>certified</i> June 1994	
Iowa Board of Medical Examiners	license 33213	<i>through</i> February 2012
Florida Board of Medicine	license ME0064017	<i>expired</i> January 2000
Virginia Board of Medicine	license 43317	<i>expired</i> October 1990

Professional and Academic Positions

Academic

1993–1998	Assistant Professor, Department of Radiation Oncology, Shands Cancer Center University of Florida, Gainesville, Florida
1997–1999	Joint Appointment, Department of Neurosurgery, Shands Cancer Center University of Florida, Gainesville, Florida
1998–1999	Associate Professor, Department of Radiation Oncology, Shands Cancer Center University of Florida, Gainesville, Florida
1999–2001	Clinical Associate Professor, Department of Neurosurgery, Shands Cancer Center University of Florida, Gainesville, Florida
2001– <i>present</i>	Clinical Professor, Department of Neurosurgery, Shands Cancer Center University of Florida, Gainesville, Florida
1999–2001	Professor, Department of Radiology Carver College of Medicine, The University of Iowa, Iowa City, Iowa
2001– <i>present</i>	Professor, Department of Radiation Oncology Carver College of Medicine, The University of Iowa, Iowa City, Iowa
2004– <i>present</i>	Secondary Appointment, Department of Otolaryngology Carver College of Medicine, The University of Iowa, Iowa City, Iowa
2009– <i>present</i>	Secondary Appointment, Department of Neurosurgery Carver College of Medicine, The University of Iowa, Iowa City, Iowa

Administrative

1999–2001	Vice-Chair, Department of Radiology Carver College of Medicine, The University of Iowa, Iowa City, Iowa
1999–2001	Director, Division of Radiation Oncology Carver College of Medicine, The University of Iowa, Iowa City, Iowa
2001– <i>present</i>	Chair, Department of Radiation Oncology Carver College of Medicine, The University of Iowa, Iowa City, Iowa
2008– <i>present</i>	Deputy Director of Clinical Cancer Care, Holden Comprehensive Cancer Center Carver College of Medicine, The University of Iowa, Iowa City, Iowa

Honors, Awards, Recognitions, and Outstanding Achievements

1992	Chief Resident Radiation Oncology, University of Arizona
1992	Outstanding Oncology Fellow Award (Upjohn Company)
1992	Member, Alpha Epsilon Delta, Pre-Medical Honorary (University of Arizona)
1992	Vernon and Virginia Furrow Award for Innovation in Medical Education
1993	RSNA Scholars Award
1994	American Cancer Society Clinical Career Development Award
1999	Edward Shedd Wells Chair of Neurosurgery, University of Florida

2003–2007	Board Member, International Stereotactic Radiosurgery Society
2003–present	Listed, <i>Best Doctors in America</i>
2006–2008	Medical Imaging – Best of the Best (Medical Imaging Industry’s Top 10 Performers)
2007–2008	Listed, Cambridge <i>Who’s Who</i>
2006–2010	Selected, America’s Top Radiologist in <i>Guide to America’s Top Radiologists</i>
2010	Fellow, American College of Radiology

II. Teaching

Teaching Assignments

Year	Classroom, Seminar, or Teaching Lab	Hours
1988–89	Instructor, <i>Indications for Bone Marrow Transplantation and Common Infections and Complications of Bone Marrow Transplantation</i> , University of Arizona	2 hrs per yr
1989	Instructor, <i>Physical Diagnosis</i>	10 hrs per yr
1990–93	Lecturer, Professional Liaison for AED, Pre-Medical Honorary of the University of Arizona	10 hrs per yr
1991–92	Lecturer, <i>Careers in Academic Medicine</i> , Pre-Medical Undergraduates, University of Arizona	1 hr per yr
1992–93	Instructor, Radiation Therapist School, University Arizona	8 hrs per yr
1992–93	Instructor, <i>Introduction to Clinical Oncology</i> Third Year Medical Students, University of Arizona	25 hrs per yr
1993	Lecturer, <i>Radiotherapy and its Implications for Dental Care</i> Dental Surgery Students, University of Arizona	1 hr per yr
1993–1998	Instructor, <i>Radiation Biology Course</i> Radiation Oncology Residents, University of Florida	15 hr per yr
1994	Lecturer, <i>Malignant Gliomas</i> Department of Radiation Oncology, University of Florida	1 hr per yr
1995	Lecturer, <i>Stereotactic Radiosurgery</i> Department of Radiation Oncology, University of Florida	1 hr per yr
1995	Lecturer, <i>General Principles of Radiation Oncology</i> Medical Students, University of Florida	1 hr per yr
1996–2000	Instructor, <i>Treatment Planning for Stereotactic Radiosurgery</i> Surgical Navigation Technologies Training Course University of Florida	12 hrs per yr
1998	Lecturer, <i>Low Grade Astrocytomas</i> Radiation Oncology Residents, University of Florida	1 hr per yr

Year	Classroom, Seminar, or Teaching Lab	Hours
1998	Lecturer, <i>Pituitary Adenomas</i> Radiation Oncology Residents, University of Florida	1 hr per yr
1998	Lecturer, <i>An Overview of Cancer</i> Graduate Student Cancer Biology, University of Florida	1 hr per yr
1998	Lecturer, <i>Introduction to Stereotactic Radiosurgery</i> Nurse training program, University of Florida	1 hr per yr
1998	Lecturer, <i>Image Guided Radiotherapy for Brain Tumors</i> Resident Lecture, University of Florida	1 hr per yr
1999	Lecturer, <i>Principles of Radiation Therapy</i> Neurology Resident Teaching Conference, University of Iowa	1 hr per yr
1999	Instructor, 74:006 Radiology Medical Student Short Clerkship Carver College of Medicine, The University of Iowa	6 hrs per yr
1999	Discussant, <i>Radiation Oncology Case Conference</i> Carver College of Medicine, The University of Iowa	3 hrs per wk
2000	Lecturer, <i>Stereotactic Radiotherapy Technique</i> Carver College of Medicine, The University of Iowa	4 hrs per yr
2000	Instructor, <i>Foundations of Clinical Practice II</i> Carver College of Medicine, The University of Iowa	2 hrs per wk
2000–2002	Instructor, 74:006 Radiology Medical Student Short Clerkship Carver College of Medicine, The University of Iowa	10 hrs per yr
2001	Instructor, <i>Foundations of Clinical Practice III</i> Carver College of Medicine, The University of Iowa	2 hrs per wk
2001	Mentor, <i>Clinician Mentor Program</i> Carver College of Medicine, The University of Iowa	2 hrs per wk
2001	Instructor, <i>Radiation Therapist Program</i> Carver College of Medicine, The University of Iowa	12 hrs per yr
2001–2008	Lecturer, Molecular and Cell Biology of Cancer (77:288) Carver College of Medicine, The University of Iowa	3 hrs per yr
2001– <i>present</i>	Lecturer, Resident Lecture Series Carver College of Medicine, The University of Iowa	8 hrs per yr
2003–2007	Lecturer, <i>Clinical and Professional Reflections Program</i> Carver College of Medicine, The University of Iowa	9 hrs per yr
2003–2005	Instructor, <i>Neurosurgery Resident Review in Radiation Oncology</i> Carver College of Medicine, The University of Iowa	2 hrs per yr
2005–2008	Instructor, <i>Foundations of Clinical Practice II</i> Carver College of Medicine, The University of Iowa	2 hrs per wk

Year	Clinical Teaching	hrs/week
1993–1996	Shands Cancer Center, University of Florida	6
1996–1999	Shands Cancer Center, University of Florida	20
1999–2003	Outpatient Clinic, University of Iowa Hospitals & Clinics	30
2004– <i>present</i>	Outpatient clinic, University of Iowa Hospitals & Clinics	20
1999– <i>present</i>	Head & neck multidisciplinary treatment planning conference	2

Students Supervised

PhD Dissertation Committees

Thomas Wagner *conferred* July 2000
Optimal delivery techniques for intracranial stereotactic radiosurgery and radiotherapy using circular and multileaf collimators
 Nuclear and Radiologic Engineering, University of Florida

RuiGuo Liu *conferred* May 2004
Geometrically based optimization of extracranial radiosurgery treatment planning
 Electrical and Computer Engineering, The University of Iowa

Clinical & Translational Research Mentorship

Lionel Bouchet, Ph.D. 1997–1999
Post-doctoral research on radiosurgery and planning
 Department of Neurosurgery, University of Florida

Amanda Mealer, Doris Duke Fellow 2003–2004
MnSOD and malignant gliomas
 Carver College of Medicine, The University of Iowa

Laurent Grignon, Doris Duke Fellow 2004–2005
Clinical stereotactic guided therapy
 Carver College of Medicine, The University of Iowa

Kevin Bylund, Doris Duke Fellow 2007–2008
Image guided radiotherapy
 Carver College of Medicine, The University of Iowa

Maneesh Kumar, Doris Duke Fellow 2007–2008
3'-UTR mRNA binding protein Hur: A molecular 'hotspot' for cancer therapy
 Carver College of Medicine, The University of Iowa

Ann Morris, M.D. 2008–2009
Cone beam localization for positioning of head and neck cancer
 Carver College of Medicine, The University of Iowa

Kevin Orcutt, Doris Duke Fellow 2009–2010
The role of oxidative stress in the cytotoxic effects of erlotinib in human head and neck cancer cells
 Carver College of Medicine, The University of Iowa

Justin Otis, BS <i>Quantitative Imaging of Tumor Response to Cancer Therapy</i> Creighton University School of Medicine	2010-2011
Audrey Wallace, Doris Duke Fellow	2011-
<i>Residency Mentorship</i>	
Kellie Condra, M.D. <i>Primary treatment for intracranial meningiomas.</i> Received UF Resident <i>Talk'in Award</i> , UF Clinical Research Conference; paper published	1995
Mark McCord, M.D. <i>Pituitary adenomas: outcome and late sequelae</i> Received UF Resident <i>Talk'in Award</i> , UF Clinical Research Conference; paper published	1996
Thomas Ellis, M.D. <i>A database for stereotactic radiosurgery.</i> (assisted with WA Friedman). Paper published	1997
Dwelyvn Simmons, M.D. <i>Gangliogliomas</i>	1997
David Marshall, M.D. <i>A Monte-Carlo based model for in vivo dosimetry. Is the dose what we think?</i> Received UF Resident <i>Talk'in Award</i> , UF Clinical Research Conference	1998
Shelaine Mabanta, M.D. <i>Radiosurgery for intracranial metastases</i>	1998
Shelaine Mabanta, M.D. <i>Stereotactic radiotherapy for intracranial germinomas</i> Received UF Resident <i>Talk'in Award</i> , UF Clinical Research Conference; paper published	1999
Shelaine Mabanta, M.D. <i>Linac radiosurgery for non-acoustic schwannoma</i>	2000
Kelly Foote, M.D. <i>Cranial nerve complication analysis for vestibular schwannoma</i> (Assisted with WA Friedman) Received Congress of Neurosurgery Award; Paper published.	1998–1999
Reena Kamath, D.O. <i>frameless radiosurgery for intracranial metastases</i>	2002–2003
Terese Howes, M.D. <i>Stereotactic positioning in clinical applications</i>	2003–2004
Heather Kaiser, M.D. <i>Extracranial stereotactic radiosurgery of liver tumors</i>	2003–2004
Chandan Reddy, M.D. & Abigail Stockham, M.S. <i>Stereotactic Radiosurgery for Trigeminal Neuralgia</i>	2006
Anna Olson, M.D. <i>Frameless radiosurgery for malignant neoplasms</i>	2007

Arshin Sheybani, MD <i>Chordoma of the Skull base</i>	2011
Bryan Allen, MD, PhD <i>Ketogenic Diet for Lung Cancer and Pancreatic Cancer</i>	2011

Other Contributions to Institutional Programs

National and International Teaching Programs

1996	Course Co-director Linac Radiosurgery, Orlando, FL
1997	Course Co-director Linac Radiosurgery, Orlando, FL
1997	Meeting Coordinator-Spring Research Seminar, Orlando, FL
1997	Department of Radiation Oncology, University of Florida
1998	Course Co-director Linac Radiosurgery, Orlando, FL
1998	Meeting Coordinator, Spring Research Seminar, Gainesville, FL
1998	Department of Radiation Oncology, University of Florida
1999	Course Co-director Linac Radiosurgery, Orlando, FL
1999	Meeting Coordinator, Spring Research Seminar, Gainesville, FL
1999	Department of Radiation Oncology, University of Florida.
2000	Course Co-director Linac Radiosurgery, Orlando, FL
2001	Radiosurgery Training Course – Z-Med
2001	Scientific Program Committee, International of Stereotactic Radiosurgery Society, Las Vegas, Nevada
2001	Director, Radiosurgery Practical Course, International Society of Stereotactic Radiosurgery, Las Vegas Nevada
2001	Course Co-Director Linac Radiosurgery, Orlando, FL
2002	Course Co-Director Linac Radiosurgery, Orlando, FL
2003	Course Co-Director Linac Radiosurgery, Orlando, FL
2003	Course Director, Annual Meeting ISTRO (Iowa Society of Therapeutic Radiation Oncology)
2004	Course Co-Director Linac Radiosurgery, Orlando, FL
2009	ASTRO IGRT & SBRT Symposium, H&N Cancer, Miami, FL
2010	ASTRO IGRT IMRT SBRT Symposium, Dallas, TX
2010	Annual Radiation Research Scholars in Training Workshop, Maui, HI
2010	Course Co-Director Linac Radiosurgery, Orlando, FL
2010	Co-Leader, Tumor Imaging Program, National Cancer Institute
2011	AANS Review Course in Stereotactic Radiosurgery, Denver, CO
2011	Course Co-Director Linac Radiosurgery, Orlando, FL

Course Materials (see appendix for samples)

Syllabus, *Radiobiology for Residents* (a programmed text of radiobiology)

Syllabus and course materials, *Radiation Therapy. A Major Role in the Treatment of Meningiomas*. A course of the Presidential Categorical Course in Central Nervous System Tumors presented by the American Society of Therapeutic Radiation and Oncology.

Teaching Committees & Activities

2000–present	Medical Advisor	UIHC Radiation Therapist Training Program
2001–present	Faculty Participant	Medical Student Community (Boulware)

Local, Regional and International CME talks

2000–present	Co-Director, ISTR0 (Iowa Society of Therapeutic Radiology & Oncology) Conference, Iowa City, Iowa.
2001	<i>Surgical Update for Nurses</i> Department of Nursing, The University of Iowa, Iowa City, Iowa
2002	<i>Stereotactic Radiosurgery</i> Scofield Advanced Oncology Nursing Conference, Coralville, Iowa
2002–present	<i>Radiation Therapy of the Head and Neck/ Complications of Head and Neck Radiotherapy</i> Iowa Basic Science Course in Otolaryngology-Head and Neck Surgery. The University of Iowa, Iowa City, Iowa
2006	<i>Advances in Image-Guided Radiation Therapy</i> Scofield Advanced Oncology Nursing Conference, Coralville, Iowa

Other Teaching Activities (see invited presentations)

2006	Lecturer: <i>Academic Radiation Oncology</i> <i>A Day in the Life Series</i> for 1 st and 2 nd yr medical students Carver College of Medicine The University of Iowa
2008	Summer Undergraduate MTSP Research (SUMR) Program
2010	University Iowa Mini-Med School Program – Image Guided Radiation Therapy

III. Scholarship**Publications (peer reviewed)**

1. Wilder RB, **Buatti JM**, Kittelson JM, Shimm DS, Harari PM, Rogoff EE, Cassady JR. Pterygium treated with excision and postoperative beta irradiation. *Int J Radiat Oncol Biol Phys* 1992;23:533-537. PMID: 1612953
2. **Buatti JM**, Rivero LR, Jorgensen TJ. Radiation-induced DNA single-strand breaks in freshly isolated human leukocytes. *Radiat Res* 1992;132:200-206. PMID: 1438702
3. Stea B, **Buatti JM**, Stringer DE, Gerner EW. Inhibition of polyamine synthesis suppresses growth and gamma-ray-induced sublethal and potentially lethal damage recovery in human tumor cells in culture. *Radiat Oncol Investig* 1993;1:41-49.

4. **Buatti JM**, Harari PM, Leigh BR, Cassady JR. Radiation-induced angiosarcoma of the breast. Case report and review of the literature. *Am J Clin Oncol* 1994;17:444-447. PMID: 8092119
5. **Buatti JM**, Friedman WA, Bova FJ, Mendenhall WM. Linac radiosurgery for high-grade gliomas: the University of Florida experience. *Int J Radiat Oncol Biol Phys* 1995;32:205-210. PMID: 7721617
6. **Buatti JM**, Friedman WA, Bova FJ, Mendenhall WM. Linac radiosurgery for locally recurrent nasopharyngeal carcinoma: rationale and technique. *Head Neck* 1995;17:14-19. PMID: 7883544
7. **Buatti JM**, Friedman WA, Bova FJ, Mendenhall WM. Treatment selection factors for stereotactic radiosurgery of intracranial metastases. *Int J Radiat Oncol Biol Phys* 1995;32:1161-1166. PMID: 7607938
8. Sarkaria JN, Mehta MP, Loeffler JS, **Buatti JM**, Chappell RJ, Levin AB, Alexander E, 3rd, Friedman WA, Kinsella TJ. Radiosurgery in the initial management of malignant gliomas: survival comparison with the RTOG recursive partitioning analysis. Radiation Therapy Oncology Group. *Int J Radiat Oncol Biol Phys* 1995;32:931-941. PMID: 7607967
9. Mendenhall WM, Parsons JT, **Buatti JM**, Stringer SP, Million RR, Cassisi NJ. Advances in radiotherapy for head and neck cancer. *Semin Surg Oncol* 1995;11:256-264. PMID: 7638513
10. Mendenhall WM, Friedman WA, Parsons J, **Buatti JM**, Bova FJ. Radiation therapy and stereotactic radiosurgery for temporal bone tumors. *Operative Techniques in Otolaryngology-Head and Neck Surgery* 1996;7:208-218.
11. Parsons J, Mendenhall WM, **Buatti JM**, Stringer S, Million R, Cassisi N. Advances in radiotherapy for head and neck cancer. In: Shah JP, editor. The 4th International Conference on Head and Neck Cancer in Toronto. Pittsburgh PA: American Head & Neck Society; 1996. pp. 224-230.
12. Auchter RM, Lamond JP, Alexander E, **Buatti JM**, Chappell R, Friedman WA, Kinsella TJ, Levin AB, Noyes WR, Schultz CJ, Loeffler JS, Mehta MP. A multiinstitutional outcome and prognostic factor analysis of radiosurgery for resectable single brain metastasis. *Int J Radiat Oncol Biol Phys* 1996;35:27-35. PMID: 8641923
13. Mendenhall WM, Friedman WA, **Buatti JM**, Bova FJ. Preliminary results of linear accelerator radiosurgery for acoustic schwannomas. *J Neurosurg* 1996;85:1013-1019. PMID: 8929489
14. **Buatti JM**, Friedman WA, Theele DP, Bova FJ, Mendenhall WM. The lazard U74389G protects normal brain from stereotactic radiosurgery-induced radiation injury. *Int J Radiat Oncol Biol Phys* 1996;34:591-597. PMID: 8621283
15. Friedman WA, Blatt DL, Bova FJ, **Buatti JM**, Mendenhall WM, Kubilis PS. The risk of hemorrhage after radiosurgery for arteriovenous malformations. *J Neurosurg* 1996;84:912-919. PMID: 8847584
16. **Buatti JM**, Marcus RB, Mendenhall WM, Friedman WA, Bova FJ. Accelerated hyperfractionated radiotherapy for malignant gliomas. *Int J Radiat Oncol Biol Phys* 1996;34:785-792. PMID: 8598354
17. **Buatti JM**, Mendenhall WM, Bova FJ, Friedman WA. In response to Firlik et al: Radiosurgery for recurrent cranial base cancer arising from the head and neck. *Head Neck* 1996;18:166.
18. **Buatti JM**, Meeks SL, Marcus RB, Jr., Mendenhall NP. Radiotherapy for pediatric brain tumors. *Semin Pediatr Neurol* 1997;4:304-319. PMID: 9447623

19. Bova FJ, **Buatti JM**, Friedman WA, Mendenhall WM, Yang CC, Liu C. The University of Florida frameless high-precision stereotactic radiotherapy system. *Int J Radiat Oncol Biol Phys* 1997;38:875-882. PMID: 9240657
20. **Buatti JM**, Marcus RB, Jr. Pituitary adenomas: current methods of diagnosis and treatment. *Oncology (Williston Park)* 1997;11:791-796; discussion 798, 803-794. PMID: 9189937
21. **Buatti JM**, Parsons JT, Mendenhall WM, Meeks SL. Fractionated stereotactic radiotherapy for choroidal melanoma. *Radiother Oncol* 1997;45:99. PMID: 9364639
22. Salzman KL, Rojiani AM, **Buatti J**, Quisling RG, Marcus RB, Jr., Maria BL, Mickle JP, Kedar A. Primary intracranial germ cell tumors: clinicopathologic review of 32 cases. *Pediatr Pathol Lab Med* 1997;17:713-727. PMID: 9267886
23. Condra KS, **Buatti JM**, Mendenhall WM, Friedman WA, Marcus RB, Jr., Rhoton AL. Benign meningiomas: primary treatment selection affects survival. *Int J Radiat Oncol Biol Phys* 1997;39:427-436. PMID: 9308947
24. McCord MW, **Buatti JM**, Fennell EM, Mendenhall WM, Marcus RB, Jr., Rhoton AL, Grant MB, Friedman WA. Radiotherapy for pituitary adenoma: long-term outcome and sequelae. *Int J Radiat Oncol Biol Phys* 1997;39:437-444. PMID: 9308948
25. McLaughlin MP, **Buatti JM**, Marcus RB, Jr., Maria BL, Mickle PJ, Kedar A. Outcome after radiotherapy of primary spinal cord glial tumors. *Radiat Oncol Investig* 1998;6:276-280. PMID: 9885944
26. Meeks SL, **Buatti JM**, Bova FJ, Friedman WA, Mendenhall WM. Treatment planning optimization for linear accelerator radiosurgery. *Int J Radiat Oncol Biol Phys* 1998;41:183-197. PMID: 9588933
27. del Charco JO, Bolek TW, McCollough WM, Maria BL, Kedar A, Braylan RC, Mickle JP, **Buatti JM**, Mendenhall NP, Marcus RB, Jr. Medulloblastoma: time-dose relationship based on a 30-year review. *Int J Radiat Oncol Biol Phys* 1998;42:147-154. PMID: 9747832
28. Bova FJ, Meeks SL, Friedman WA, **Buatti JM**. Optic-guided stereotactic radiotherapy. *Med Dosim* 1998;23:221-228. PMID: 9783275
29. **Buatti JM**, Friedman WA, Meeks SL, Bova FJ. The radiobiology of radiosurgery and stereotactic radiotherapy. *Med Dosim* 1998;23:201-207. PMID: 9783273
30. Meeks SL, Bova FJ, Friedman WA, **Buatti JM**, Mendenhall WM. Linac scalpel radiosurgery at the University of Florida. *Med Dosim* 1998;23:177-185. PMID: 9783271
31. Meeks SL, **Buatti JM**, Bova FJ, Friedman WA, Mendenhall WM, Zlotecki RA. Potential clinical efficacy of intensity-modulated conformal therapy. *Int J Radiat Oncol Biol Phys* 1998;40:483-495. PMID: 9457839
32. Ellis TL, Friedman WA, Bova FJ, Kubilis PS, **Buatti JM**. Analysis of treatment failure after radiosurgery for arteriovenous malformations. *J Neurosurg* 1998;89:104-110. PMID: 9647180
33. McLaughlin MP, Marcus RB, Jr., **Buatti JM**, McCollough WM, Mickle JP, Kedar A, Maria BL, Million RR. Ependymoma: results, prognostic factors and treatment recommendations. *Int J Radiat Oncol Biol Phys* 1998;40:845-850. PMID: 9531369
34. Meeks SL, Bova FJ, Friedman WA, **Buatti JM**, Moore RD, Mendenhall WM. IRLED-based patient localization for linac radiosurgery. *Int J Radiat Oncol Biol Phys* 1998;41:433-439. PMID: 9607362

35. **Buatti JM**, Bova FJ, Friedman WA, Meeks SL, Marcus RB, Jr., Mickle JP, Ellis TL, Mendenhall WM. Preliminary experience with frameless stereotactic radiotherapy. *Int J Radiat Oncol Biol Phys* 1998;42:591-599. PMID: 9806519
36. Corn BW, Mehta MP, **Buatti JM**, Wolfson AH, Greven KM, Kim RY, Dunton CJ, Loeffler JS. Stereotactic Irradiation: potential new treatment method for brain metastases resulting from ovarian cancer. *Am J Clin Oncol* 1999;22:143-146. PMID: 10199447
37. Foote KD, Friedman WA, **Buatti JM**, Bova FJ, Meeks SA. Linear accelerator radiosurgery in brain tumor management. *Neurosurg Clin N Am* 1999;10:203-242. PMID: 10099089
38. Mabanta SR, **Buatti JM**, Friedman WA, Meeks SL, Mendenhall WM, Bova FJ. Linear accelerator radiosurgery for nonacoustic schwannomas. *Int J Radiat Oncol Biol Phys* 1999;43:545-548. PMID: 10078635
39. Shafron DH, Friedman WA, **Buatti JM**, Bova FJ, Mendenhall WM. Linac radiosurgery for benign meningiomas. *Int J Radiat Oncol Biol Phys* 1999;43:321-327. PMID: 10030256
40. Meeks SL, Bova FJ, Maryanski MJ, Kendrick LA, Ranade MK, **Buatti JM**, Friedman WA. Image registration of BANG gel dose maps for quantitative dosimetry verification. *Int J Radiat Oncol Biol Phys* 1999;43:1135-1141. PMID: 10192365
41. Meeks SL, Bova FJ, Kim S, Tome WA, **Buatti JM**, Friedman. Dosimetric characteristics of a double-focused miniature multileaf collimator. *Med Phys* 1999;26:729-733. PMID: 10360533
42. Meeks SL, Bova FJ, **Buatti JM**, Friedman WA, Eyster B, Kendrick LA. Analytic characterization of linear accelerator radiosurgery dose distributions for fast optimization. *Phys Med Biol* 1999;44:2777-2787. PMID: 10588284
43. Meeks SL, Williams RO, Bova FJ, Mendenhall WM, **Buatti JM**. The midline dose distribution for a three-field radiotherapy technique. *Med Dosim* 1999;24:91-98. PMID: 10379506
44. **Buatti JM**, Friedman WA, Theele D, Bova FJ, Mendenhall WM. Radioprotection of normal brain tissue by the lazard U74389G is not improved by dose escalation. In: Kondziolka D, editor. *Radiosurgery 1999*. Vol 3. Basel: Karger; 2000. pp. 153-160.
45. Mabanta S, **Buatti JM**, Meeks SL, Friedman WA, Bova FJ. Stereotactic radiotherapy integrated with conventional radiotherapy for intracranial germinomas. In: Kondziolka D, editor. *Radiosurgery 1999*. Vol 3. Basel: Karger; 2000. pp. 257-261.
46. Meeks SL, Bova FJ, **Buatti JM**, Friedman WA, Kim S. Clinical dosimetry considerations for a doubled-focused miniature multileaf collimator. In: Kondziolka D, editor. *Radiosurgery 1999*. Vol 3. Basel: Karger; 2000. pp. 83-90.
47. Meeks SL, Bova FJ, Maryanski MJ, Kendrick LA, Ranade MK, **Buatti JM**, Friedman WA. Quantitative verification of dose distributions for linac radiosurgery and fractionated stereotactic radiotherapy. In: Kondziolka D, editor. *Radiosurgery 1999*. Vol 3. Basel: Karger; 2000. pp. 13-22.
48. Mayr NA, Yuh WT, Arnholt JC, Ehrhardt JC, Sorosky JI, Magnotta VA, Berbaum KS, Zhen W, Paulino AC, Oberley LW, Sood AK, **Buatti JM**. Pixel analysis of MR perfusion imaging in predicting radiation therapy outcome in cervical cancer. *J Magn Reson Imaging* 2000;12:1027-1033. PMID: 11105046
49. Wagner TH, Yi T, Meeks SL, Bova FJ, Brechner BL, Chen Y, **Buatti JM**, Friedman WA, Foote KD, Bouchet LG. A geometrically based method for automated radiosurgery planning. *Int J Radiat Oncol Biol Phys* 2000;48:1599-1611. PMID: 11121667

50. **Buatti JM**, Meeks SL, Friedman WA, Bova FJ. Stereotactic radiosurgery: techniques and clinical applications. *Surg Oncol Clin N Am* 2000;9:469-487, viii. PMID: 10853137
51. Tome WA, Meeks SL, **Buatti JM**, Bova FJ, Friedman WA, Li Z. A high-precision system for conformal intracranial radiotherapy. *Int J Radiat Oncol Biol Phys* 2000;47:1137-1143. PMID: 10863087
52. Meeks SL, **Buatti JM**, Foote KD, Friedman WA, Bova FJ. Calculation of cranial nerve complication probability for acoustic neuroma radiosurgery. *Int J Radiat Oncol Biol Phys* 2000;47:597-602. PMID: 10837941
53. Meeks SL, Bova FJ, Wagner TH, **Buatti JM**, Friedman WA, Foote KD. Image localization for frameless stereotactic radiotherapy. *Int J Radiat Oncol Biol Phys* 2000;46:1291-1299. PMID: 10725643
54. **Buatti JM**, Friedman WA, Meeks SL, Bova FJ. RTOG 90-05: the real conclusion. *Int J Radiat Oncol Biol Phys* 2000;47:269-271. PMID: 10802348
55. Mayr NA, Taoka T, Yuh WT, Zhen WK, Paulino AC, Sorosky JI, **Buatti JM**. Magnetic resonance imaging in the assessment of radiation response in cervical cancer: regarding Hatano K et al. *IJROBP* 1999; 45:399-344. *Int J Radiat Oncol Biol Phys* 2000;48:910-912. PMID: 11183740
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Book Chapters

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91. Yao M, Bayouth JE, Tan H, Wacha J, Dornfeld KJ, **Buatti JM**. Intensity-modulated radiotherapy for oral cavity cancer. *Int J Radiat Oncol Biol Phys* 66(3):S431 2006. Presented ASTRO 2006.

92. Yao M, Graham MM, Smith RB, Hoffman HT, Tan H, **Buatti JM**. Correlation of pathology and post-radiation therapy FDG PET for residual cervical lymph node in head and neck cancer after radiation treatment. *Oncology* 2006;20 (supplement 3):8
93. Bayouth JE, Waldron TJ, Bhatia S, **Buatti JM**. Respiratory-gated extracranial radiosurgical target localization. Submitted to 25th Meeting of ESTRO: European Society for Therapeutic Radiology and Oncology.
94. Yao M, Chang K, Funk GF, Lu H, Tan H, Wacha J, Dornfeld KJ, **Buatti JM**. The Failure Patterns of Oral Cavity Squamous Cell Carcinoma after Intensity-Modulated Radiotherapy – The University of Iowa Experience. Presented at the Annual ASTRO Meeting Nov 5-9, 2006.
95. Wu X, Bayouth JE, Dou X, and **Buatti JM**. The Matrix Orthogonal Decomposition Problem in Intensity-Modulated Radiation Therapy. The Twelfth Annual International Computing and Combinatorics Conference, 2006.
96. Bayouth JE, Pennington EC, **Buatti JM**. WE-D-224C-02: High dose rate mode linear accelerator based stereotactic radiosurgery and image guided radiation therapy. *Medical Physics* 2006; 33:2249.
97. Bhatia S, Bayouth JE, Waldron T, **Buatti JM**. Cost Efficient Utilization of New Technology for Precise Tumor Targeting. Presented at American Radium Society Meeting in Amsterdam, May 2007.
98. Dou X, Wu X, Bayouth J, **Buatti JM**. Orthogonal Delivery to Improve IMRT Efficiency. Presented ASTRO 2007 Los Angeles, CA. *IJROBP* Vol 69 No 3 Oct 2007 pp S194.
99. Stockham A, Reddy CD, **Buatti JM**, Hitchon P, Ryken T, Smith MC. Patient Assessment of Outcome after LINAC Radiosurgery for Trigeminal Neuralgia. Presented ASTRO 2007.
100. Yao M, Smith RB, Hoffman HT, Funk GF, Lu M, Menda Y, Graham MM, **Buatti JM**. Clinical Significance of Post-Radiotherapy [¹⁸F] Fluorodeoxyglucose Positron Emission Tomography Imaging in Management of Head and Neck Cancer – A Long-Term Outcome Report. Presented at the 49th Annual Meeting of ASTRO in Los Angeles, CA Oct 28 – Nov 1, 2007.
101. Bylund KC, Bhatia SK, Smith MC, Buechler-Price JL, **Buatti JM**, Bayouth JE, Hass AC. Interobserver Variation in Megavoltage Cone Beam CT (MV CBCT) Based Corrections in Head and Neck Image Guided Radiotherapy. Accepted to the American Radium Society Annual Meeting, May 3-7 2008 in Laguna Niguel, CA.
102. Gupta AK, Cerniglia GJ., Ahmed MS., Maity A, **Buatti JM**. Radiosensitization in a panel of non-small cell lung cancer cell lines: A comparison of targeted therapy against EGFR vs. Akt. Submitted to AACR Annual Meeting 2008.
103. Gupta AK, Wilke WW, **Buatti JM**, Spitz DR. The HIV protease inhibitor nelfinavir is synergistic with energy restriction in SQ20b cells resulting in down-regulation of phosphorylated Akt and radiation sensitization. Submitted ASCO 2008.
104. Ryken T, Carlisle T, **Buatti JM**, Kirby P, Maley J, Hohl R, Smith B, Greenlee M, Frees M, Rogers M. Treatment of Adults with Newly Diagnosed Glioblastoma Multiforme or Anaplastic Astrocytoma with Surgery, Gliadel Wafers and Limited Field Radiation Plus Concomitant Temozolomide Followed by Adjuvant Temozolomide. Submitted ASCO 2008.
105. Dou X, Wu X, Kim Y, Bayouth J, **Buatti J**. SU-GG-T-100: Optimal field splitting in IMRT. *Med Phys* 2008;35:2749.

106. Muruganandham M, Bayouth J, Kearney W, Smith M, **Buatti J**. SU-GG-J-112: Integration and verification of 3T magnetic resonance spectroscopic imaging in radiation therapy treatment planning. *Med Phys* 2008;35:2704.
107. Iseli TA, Karnell LH, Preston TW, Graham SM, Gunk GF, **Buatti JM**, Gupta AK, Robinson RA, Hoffman HT. The role of Radiotherapy in Adenoid Cystic Carcinoma of the Head and Neck. Accepted for Presentation at the 7th International Conference on Head and Neck Cancer, San Francisco, July 19-23, 2008.
108. Bylund KC, Bayouth JE, Smith MC, **Buatti JM** "Analysis of interfraction prostate motion using megavoltage conebeam CT" Poster Presentation, Abstract 4304. ESTRO 27, Goteborg, Sweden, Sept 14-18, 2008.
109. Bylund KC, Bayouth JE, Smith MC, Siochi RA, **Buatti JM**. Geometric and Dosimetric Impact of Interfraction Prostate Motion Measured with Megavoltage Cone Beam CT. Presented at Annual ASTRO Meeting September 20-26, 2008.
110. Waldron TJ, Bayouth JE, Bhatia S, **Buatti JM**. Use of Music-based Breathing Training to Stabilize Breathing Motion in Respiration Correlated Imaging and Radiation Therapy. Presented at Annual ASTRO Meeting September 20-26, 2008.
111. Muruganandham M, Bayouth JE, Smith MC, **Buatti JM**. Impact of 3-Tesla MR Spectroscopic Imaging in the Delineation of High Grade Glioma Target Volume for Radiation Therapy Planning. Presented at Annual ASTRO Meeting September 20-26, 2008.
112. Gupta AK, Lee JH, Wilke WW, **Buatti JM**, Spitz DR. Comparison of Radiation Response in HPV Induced Squamous Cell Cancer. Presented at Annual ASTRO Meeting September 20-26, 2008.
113. Song Q, Yin Y, Chen M, Kim Y, Bayouth JE, **Buatti JM**, Siochi RA, Sonka M, Wu X. Simultaneous Segmentation of Bladder and Prostate Using Globally Optimal 3-D Graph Search Method. Presented at 50th Annual ASTRO Meeting September 20-26, 2008, Boston, MA. *IJROBP (Supplement) Vol 72, p S148*.
114. Olson AK, Smith MC, Ryke TC, Hitchon PW, Pennington EC, Smith BJ, Bayouth JE, **Buatti JM**. Frameless Stereotactic Radiosurgery for Treatment of Intracranial Metastases. Presented at Annual ASTRO Meeting September 20-26, 2008.
115. Ahmed R, Morris AM, Jacob A, Bruch L, **Buatti JM**, Hitchon PW. Management and Treatment Outcomes for Spinal Chordomas: A Case Series Review. Congress of Neurological Surgeons Annual Meeting, Orlando, FL, September 20-25, 2008.
116. Olson A, Ryken T, Smith M, Bayouth J, Pennington E, **Buatti JM**. Surgical Resection and Frameless Stereotactic Radiosurgery for Solitary Intracranial Metastatic Disease. Presented at Annual Society for Neuro-Oncology Meeting November 20-23, 2008.
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118. Wu, X, Sonka, M, **Buatti J**, Smith MC. Optimal Graph Search Segmentation Using Arc-weighted Graph for Simultaneous Surface Detection of Bladder and Prostate. Presenting at MICCAI, September 20-24, 2009, London, UK.
119. Murphy CW, **Buatti JM**, Gupta AK. Head and Neck Cancer Patients with N3 Disease: Role of PET-CT and Overall Outcome. Presented at Annual ASTRO Meeting, Chicago, IL, November 1-5, 2009.

120. Morris A, Bayouth JE, **Buatti JM**. "Spinal Rotation and Non-Rigid Body Deformation in Head and Neck Cancer" Presented at Annual ASTRO Meeting, Chicago, IL, November 1-5, 2009.
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122. Muruganandham M, Bayouth J, Smith M, **Buatti J**. MO-EE-A4-02: Metabolic changes in malignant brain tumors during mid-course radiation therapy: Initial findings of 3Tesla volumetric magnetic resonance spectroscopic imaging. *Med Phys* 2009;36:2705-2706.
123. Muruganandham M, Bayouth JE, Anderson CM, Smith MC, **Buatti JM**. 3D-MR Spectroscopic Imaging Assessment of Metabolic Status of Malignant Gliomas during External Beam Radiation Therapy - Preliminary Results. *Int J Radiat Oncol Biol Phys* 2009;75:S228-S229.
124. Song Q, Wu X, **Buatti J**, Smith M, Sonka M. TH-C-304A-04: Simultaneous delineation of bladder and prostate from 3D CT: An optimal graph-theoretic approach. *51st Annual Meeting of the American Association of Physicists in Medicine (AAPM) Anaheim, CA. Med Phys* 2009;36:2803.
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126. Sun W, Bayouth JE, **Buatti JM**, Maley JE, Anderson CM. Interobserver and intermodality variability in GTV delineation on simulation CT FDG-PET and MR images of head and neck cancer. Multidisciplinary Head and Neck Cancer Symposium. February 25-27, 2010.
127. Ponto LL, Menda Y, Watkins GL, Tewson T, Thede-Reynolds K, Graham M, **Buatti JM**. Do [18F]FLT Plasma Levels and Metabolism Change with Chemoradiation Therapy? Presented June 2010 at Annual Society of Nuclear Medicine Meeting, Salt Lake City, Utah.
128. Ponto LL, Menda Y, Sunderland J, Watkins L, **Buatti JM**, Gupta A. Technical Methods for the Image-based Evaluation of Pharmacologically-induced Changes in Tumor Blood Flow. Presented at Society of Nuclear Medicine Annual Meeting, June 5-9, 2010, Salt Lake City, Utah.
129. Dou X, Wu X, Bhatia S, **Buatti JM**. Tumor Segmentation in CT Images Using Globally Optimal Single Surface Detection. Oral Presentation during the 52nd Annual Meeting of the AAPM in Philadelphia, PA July 18 - 22, 2010. *Medical Physics (Supplement) Vol 27 No. 6 June 2010*, pp 3459. doi: 10.1118/1.3469508
130. Andrews SD, Bhatia S, Anderson K, Murphy C, Reed A, Zimmerman M, Shiliang S, Karwal M, Bayouth J, **Buatti JM**. Highly Effective Treatment of Hepatocellular Carcinoma with Stereotactic Radiosurgery Combined with Chemo-embolization. Digital Poster Discussion session at the ASTRO annual meeting 10/31-11/4/10 in San Diego.
131. Yao M, Lu M, Savvides P, Rezaee R, Lavertu P, **Buatti JM**, Machtay M. Distant Metastasis in Head and Neck Cancer after Intensity-modulated Radiotherapy. Digital Poster Discussion session at ASTRO's 2010 Annual Meeting, October 31 - November 4, 2010 in San Diego.

132. Allen BG, Fath MA, Simons AL, Bhatia SK, **Buatti JM**, Spitz DR. Enhancing Tumor Chemo-Radio-Sensitization Using Ketogenic Diets. Presented in an oral Scientific Session during the 2010 Annual Meeting, October 31 – November 4, 2010 in San Diego.
133. Han D, Bayouth J, Song Q, Taurani A, Sonka M, **Buatti JM**, Wu, X., Globally Optimal Tumor Segmentation in PET-CT Images: A Graph-Based Co-Segmentation Method. Accepted to the *22nd biennial International Conference on Information Processing in Medical Imaging (IPMI)*, Monastery Irsee, Germany, July 3-8, 2011

Non-peer reviewed publications

1. **Buatti JM**. Death with Dignity/Euthanasia Amendments: A viewpoint. Scalpel Newsletter, February 1992.
2. **Buatti JM**. Presidential Categorical Course in Central Nervous System Tumors: *Radiation Therapy. A Major Role in the Treatment of Meningiomas*. American Society of Therapeutic Radiation and Oncology Syllabus.
3. **Buatti JM**, Meeks, SL. Stereotactic radiosurgery for brain lesions. Currents (UI publication) Summer 2000;Vol 1, #3.
4. No More Scalpel. University of Iowa Pacemaker. 27:4 July/Sept/October 2000. (a review of radiosurgery system at the University of Iowa)
5. **Buatti JM**. Radiation Oncology Update. Radiology Update 13(1):3,2000. (UI publication)
6. 3D Ultrasound radiation targeting systems. Radiology Today 2(18):23-25,2001 (national magazine for radiologic science professionals featuring UI systems)
7. Meeks SL, **Buatti JM**. Ultrasound Guidance for Extracranial Stereotactic Radiosurgery. Currents (UI publication) 2(4); Fall 2001.
8. **Buatti JM**. Department of Radiation Oncology. University of Iowa Web Publication.
9. Lunsford LD, Niranjana A, Kobayashi T, Linskey M, Witt T, Landolt A, Liscak R, Laws Jr, ER, Vance ML, **Buatti JM**, Knisely J, Sperduto P, Coy S, Emerick RL. Stereotactic Radiosurgery for Patients with Pituitary Adenomas. Radiosurgery Practice Guideline Initiative. International Radiosurgery Support Association. Practice Guideline Report #3-04:1-12; 2004.

Areas of Research Interest and Current Projects

Areas of Research Interest

- Central nervous system tumors
- Stereotactic radiotherapy
- Extracranial stereotaxis
- Head and neck cancer

Active –

Principal Investigator Initiated Clinical Trials

Serial Blood and Salivary Sampling for Validation of Quantitative Amifostine Assays. [IRB 200406002]

A phase II trial of the HIV protease inhibitor nelfinavir in patients with recurrent symptomatic adenoid cystic cancers of the head and neck [IRB 200905704]

Co-Principal Investigator

A phase I trial of a ketogenic diet with concurrent chemoradiation for non-small cell lung cancer [IRB 201102773, Bhatia co-PI]

A phase I trial of a ketogenic diet with concurrent chemoradiation for pancreatic cancer [IRB 201102772, Bhatia co-PI]

F-18 Fluorothymidine (FLT) PET Imaging for Early Evaluation of Response to Chemoradiation Therapy in Patients with Head and Neck Squamous Cell Carcinoma (HNSCC) [IRB 200801758, Menda co-PI]

Biodistribution and Radiation Dosimetry of F-18 Fluorothymidine (FLT) Imaged with Positron Emission Tomography (PET) In Patients with Head and Neck Cancer: A Radioactive Drug Research Committee (RDRC) Study [IRB 200502799; Menda co-PI]

A phase I/II trial of the HIV protease inhibitor nelfinavir and concurrent radiation and chemotherapy in patients with locally advanced pancreatic cancer [200905705; Bhatia co-PI]

Co-Investigator

Inflammation versus Residual Tumor: Methods to Improve Accuracy of Post-Radiotherapy PET scans in Head and Neck Cancer Patients [IRB 201102860, Anderson PI]

Effects of Transcutaneous Electrical Nerve Stimulation (TENS) on Mucositis Pain and Function [IRB 201009732, Lee PI]

AMH Changes during Chemotherapy in Women Receiving Leuprolide Acetate [IRB 200912754, Stegmann PI]

Phase II trial of Induction chemotherapy with Cisplatin- 5FU-Docetaxel followed by cetuximab+ radiation for locally advanced SCC of the head and neck [200903738, Wehbe PI]

Quantifying Radiation Induced Changes in Pulmonary Function in Irradiated and Non-irradiated Lung Tissue [200905703, Bayouth PI]

Evaluation of an efficient detector for the megavoltage cone beam computed tomography (MVCBCT) patient positioning system [IRB 200904766, Flynn PI]

Evaluation of Modified Radiation Therapy Imaging Beam Line [IRB 200804758, Flynn PI]

A multimodality comparison of imaging for lumpectomy cavity localization [IRB 200901744, Jacobson PI]

Ocular, Skin and Connective Tissue Proliferative Disorders Clinical Data and Tissue Sample Collection Project [IRB 200804792, Milhem PI]

Verification of MRI Imaging Technique and Output [IRB 200709709, Muruganandham PI]

A Randomized Clinical Trial of Unruptured Brain Arteriovenous Malformations [IRB 200612776, Adams PI]

Development of Radiation Fibrosis in Patients Treated with Pentoxifylline and Vitamin E: A Prospective Randomized Study [IRB 200211003, Jacobson PI]

Quality of Life Interventions During Cervical Cancer Treatment [IRB 200105058, Lutgendorf PI]

Head and Neck Oncology and Reconstructive Surgery Outcomes Analysis [IRB 199412746, Funk PI]

Industry-Sponsored Clinical Investigations [local site co-investigator]

A Phase III Randomized, Multicenter Trial Comparing G-CSF Mobilized Peripheral Blood Stem Cell with Marrow Transplantation from HLA Compatible Unrelated Donors [IRB 200311006 deMagalhaes-Silverman PI]

Cancer Cooperative Group Clinical Trials –

Principal Investigator / Co-Principal Investigator

AHOD0831: A non-randomized phase III study of response adapted therapy for the treatment of children with newly diagnosed high risk Hodgkin lymphoma [IRB 201012776, Tannous PI]

ACNS0332: Efficacy of Carboplatin Administered Concomitantly With Radiation and Isotretinoin as a Pro-Apoptotic Agent in Other Than Average Risk Medulloblastoma/PNET Patients [IRB 201011795, Tannous PI]

ARET0321: A Trial of Intensive Multi-Modality Therapy for Extra-Ocular Retinoblastoma [IRB 200906705, Tannous PI]

ACNS0334: A Phase III Randomized Trial for the Treatment of Newly Diagnosed Supratentorial PNET and High Risk Medulloblastoma in Children < 36 months Old with Intensive Induction

- Chemotherapy with Methotrexate Followed by Consolidation with Stem Cell Rescue vs. the Same Therapy Without Methotrexate [IRB 200903733, Tannous PI]
- AREN0532: Treatment for Very Low and Standard Risk Favorable Histology Wilms Tumor - A Group-wide Phase III Study [IRB 200812777, Tannous PI]
- AHOD03P1: Treatment of Children with Newly-Diagnosed Low Stage Lymphocyte Predominant Hodgkin Disease (LPHD: A Group-wide Pilot Study [IRB 200812743, Tannous PI]
- ARST0531 Randomized Study of Vincristine, Dactinomycin, and Cyclophosphamide (VAC) verses VAC Alternating with Vincristine and Irinotecan (VI) for Patients with Intermediate-Risk Rhabdomyosarcoma [IRB 200810704, Tannous PI]
- ACNS0221: A Phase II Study of Conformal Radiotherapy in patients with low grade gliomas [IRB 200809779, Tannous PI]
- Erwinia chrysanthemi L-asparaginase for injection [IRB 200707755, Tannous PI]
- ANBL0532: Phase III Randomized Trial of Single vs. Tandem Myeloablative as Consolidation Therapy for High-Risk Neuroblastoma [IRB 200712731, Tannous PI]
- A Children's Oncology Group Protocol for Collecting and Banking Relapsed Acute Lymphoblastic Leukemia Research Specimens [IRB 200703726, Tannous PI]
- AREN0321: Treatment of High Risk Renal Tumors [IRB 200702796, Tannous PI]
- AEWS0331: European Ewing Tumor Working Initiative of National Groups, Ewing Tumor Studies 1999 (Euro-E.W.I.N.G. 99) [IRB 200606737, Tannous PI]
- AALL02P2: Treatment of Late Isolated Extramedullary Relapse from Acute Lymphoblastic Leukemia (ALL) (Initial CRI \geq 18 months) [IRB 200602712, Tannous PI]
- ARST0331: Vincristine, Dactinomycin and Lower Doses of Cyclophosphamide with or without Radiation Therapy for Patients with Newly Diagnosed Low-Risk Embryonal/Botryoid Rhabdomyosarcoma [IRB 200601788, Tannous PI]
- AALL0331: Standard Risk B-precursor Acute Lymphoblastic Leukemia [IRB 200504791, Tannous PI]
- AAML03P1: Treatment of Newly Diagnosed Childhood Acute Myeloid Leukemia (AML) Using Intensive MRC-Based Therapy and Gemtuzumab Ozogamicin (GMTZ): A COG Pilot Study [IRB 200502793, Tannous PI]
- ARST0121: A Group wide Randomized Phase II Window Study of Two Different Schedules of Irinotecan in Combination with Vincristine and Pilot Assessment of Safety and Efficacy of Tirapazamine Combined with Multiagent Chemotherapy for First Relapse or Progressive Disease in Rhabdomyosarcoma and Related Tumors [IRB 200501712, Tannous PI]
- AHOD0031: Phase III Group-Wide Study of Dose-Intensive Response-Based Chemotherapy and Radiation Therapy for Children and Adolescents with Newly Diagnosed Intermediate Risk Hodgkin's Disease [IRB 200403007, Tannous PI]
- RTOG 0920: A phase III study of postoperative radiation therapy (IMRT) \pm cetuximab for locally advanced resected head and neck cancer [IRB 201006724, Jacobson PI]

- RTOG 0724: A phase III randomized study of concurrent chemotherapy and pelvic radiation therapy with or without adjuvant chemotherapy in high-risk patients with early-stage cervical carcinoma following radical hysterectomy [IRB 201005772, Jacobson PI]
- RTOG 0825: Phase III double-blind placebo-controlled trial of conventional concurrent chemoradiation and adjuvant temozolomide plus bevacizumab versus conventional concurrent chemoradiation and adjuvant temozolomide in patients with newly diagnosed glioblastoma [IRB 201001733; Jacobson PI]
- ECOG E3F05: Phase III study of radiation therapy with or without temozolomide for symptomatic or progressive low-grade gliomas. [IRB 200911711, Jacobson PI]
- RTOG 0614: A randomized, phase III, double-blind, placebo-controlled trial of memantine for prevention of cognitive dysfunction in patients receiving whole-brain radiotherapy. [IRB 200908773, Jacobson PI]
- CALGB 10403/ECOG C10403: An Intergroup Phase II Clinical Trial For Adolescents and Young Adults With Untreated Acute Lymphoblastic Leukemia (ALL) [IRB 200805765, Jamieson PI]
- RTOG 0235: Positron Emission Tomography Pre- and Post-Treatment Assessment for Locally Advanced Non-Small Cell Lung Carcinoma [IRB 200707713, Jacobson PI]
- RTOG 0415: A phase III randomized study of hypofractionated 3D-CRT/IMRT versus conventionally fractionated 3D-CRT/IMRT in patients with favorable-risk prostate cancer [IRB 200707710, Jacobson PI]
- RTOG 0625: A Randomized Phase II Trial of Bevacizumab With Irinotecan or Bevacizumab With Temozolomide in Recurrent Glioblastoma [IRB 200706711, Jacobson PI]
- CALGB 80302: A Phase II Trial Of Preoperative Irinotecan, Cisplatin And Radiation In Esophageal Cancer [IRB 200604714, Vaena PI]
- RTOG 0525: A phase III trial comparing conventional adjuvant temozolomide with dose-intensive temozolomide in patients with newly diagnosed glioblastoma [IRB 200603718, Jacobson PI]
- CALGB 30407: A Randomized Phase II Study Of Radiation Therapy, Pemetrexed And Carboplatin With Or Without Cetuximab In Stage Iii Non-Small Cell Lung Cancer [IRB 200510703, Vaena PI]
- CALGB 80101: Phase III intergroup trial of adjuvant chemoradiation after resection of gastric or gastroesophageal adenocarcinoma [IRB 200304026, Vaena PI]
- CALGB 59905: A Randomized Phase III Trial of ABVD Versus Stanford V \pm Radiation Therapy in Locally Extensive and Advanced Stage Hodgkin's Disease [IRB 200109038, Vaena PI]
- CALGB 500002/S0008: Phase III Trial of High Dose Interferon Alpha-2b Versus Cisplatin, Vinblastine, DTIC Plus IL-2 and Interferon in Patients With High Risk Melanoma [IRB 200109034, Vaena PI]
- CALGB 49909 N9831: Phase III Trial of Doxorubicin and Cyclophosphamide (AC) Followed by Weekly Paclitaxel With or Without Trastuzumab as Adjuvant Treatment for Women With HER 2 Over-expressing or Amplified Node Positive or High-Risk Node Negative Breast Cancer (an Intergroup Study) [IRB 200009016, Vaena PI]
- CALGB 89808: (RTOG 98-11) A phase III randomized study of 5-Fluorouracil, Cisplatin and radiotherapy vs 5-Fluorouracil, Mitomycin-C and Radiotherapy in carcinoma of the anal canal [IRB200003080, Vaena PI]

CALGB 9710: Phase III Randomized Study Of Concurrent Tretinoin And Chemotherapy With Or Without Arsenic Trioxide (As203)(NSC 706363) As Initial Consolidation Therapy Followed By Maintenance Therapy With Intermittent Tretinoin Versus Intermittent Tretinoin Plus Mercaptopurine And Methotrexate For Patients With Untreated Acute Promyelocytic Leukemia [IRB 199910031, Vaena PI]

CALGB 8461: Cytogenetics Studies In Acute Leukemia [IRB 198308435, Vaena PI]

Completed –

Investigator Initiated Clinical Trials –

Principal Investigator -

Accelerated Hyperfractionation and Radiosurgical Boost for Malignant Gliomas [University of Florida, 1994-1998].

Test of a High Precision Radiation Therapy Positioning System [University of Florida, 1994-1999]

Frameless High-Precision Stereotactic Radiotherapy for the Treatment of Acoustic Schwannoma; Meningioma; Low Grade Chondrosarcoma; Cordoma; Nasopharyngeal Carcinoma; Other Previously Irradiated Brain Tumors; Other Intracranial Tumors [University of Florida, 1994-1999]

Frameless High-Precision Stereotactic Radiotherapy for Pediatric Central Nervous System Tumors [University of Florida, 1994-2000]

A Phase I Study of Vaccination with Irradiated Autologous Cancer Cells Genetically Engineered to Express B7-2 T-Cell Co-Stimulatory Molecule and Granulocyte Macrophage Colony Stimulating Factor in Patients with Recurrent Glioblastoma and Refractory Malignant Melanoma [University of Florida, 1997-98; Lung-Ji Chang, Ph.D., co-investigator]

A Randomized Trial of Carbogen Breathing During Accelerated Hyperfractionated Radiotherapy for Head and Neck Cancer [University of Florida, 1996-1999; D. Siemann and W. Mendenhall, co-investigators; transferred to W. Mendenhall]

Neuropsychologic Sequelae of Brain Tumor Therapy [University of Florida, 1998-2000]

Stereotactic Radiosurgery Versus Medical Management Alone For Patients With Hemorrhagic Cerebral Cavernous Malformations: A Phase III Multi-Center, Prospective Randomized Trial [University of Florida, 1998-1999; D. Kondziolka, co-investigator]

A Micro-Multileaf Collimator for Irradiation of Central Nervous System Tumors [University of Florida, 1998-2000; transferred to William Friedman]

A Phase III Randomized Study of the Clinical Utility of Ultrasound Image Guided Stereotactic Navigation to Improve External Beam Radiation Therapy in the Treatment of Patients with High Risk Cancer of the Prostate [University of Iowa, 2000-2005; J. Lattanzi, co-investigator]

Co-Investigator

A Phase II Trial of the HIV Protease Inhibitor Nelfinavir and Concurrent Radiation and Chemotherapy in Patients with Stage III Non-Small Cell Lung Cancer

An investigator-initiated, multicenter, randomized, double-blind, placebo-controlled design Study to assess the effectiveness of CeviMeline to Improve oral health in patients with xerostomia secondary to radiation therapy for treatment of head and neck squamous cell carcinoma.

Pilot study to evaluate esomeprazole (Nexium) in treating gastro-esophageal reflux in patients with head and neck cancer with prior external beam radiation therapy: a randomized, prospective, placebo-controlled, double-blind study.

PET Imaging in the Management of Head and Neck Cancer

Comprehensive Pediatric Neuro-Oncology Tumor Database

Industry Sponsored Clinical Trials –

Principal Investigator -

A Pilot, Phase II, Open Label, Nonrandomized, Multi-Center Study of [F-18]HX4 Positron Emission Tomography (PET) to Detect Hypoxia in Tumors

RSA Image Fusion Software for Stereotactic Radiosurgery and Stereotactic Radiotherapy Treatment Planning [University of Florida, 1994-1996]

Longitudinal Open-Label, Multi-Center Clinical Trial of Gliadel® for Patients with Malignant Glioma [University of Florida, 1996-1998]

A Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Proliferosan 20 with Carmustine 3.85% Implant in Patients Undergoing Initial Surgery for Newly Diagnosed Malignant Glioma [University of Florida, 1998-2000]

Co-Investigator

A Multicenter Phase II Study of TP-38 in Those Patients With Glioblastoma Multiforme Who Have Recurred or Progressed after Previous Resection and Radiation Therapy and Are Scheduled for Gross Total Resection

Phase II Treatment of Adults With Newly Diagnosed Supratentorial Glioblastoma Multiforme Treated With Gliadel Wafers, Surgery And Limited Field Radiation Plus Concomitant Temozolomide Followed by Temozolomide

A Phase III Multicenter Study of Intratumoral/Interstitial Therapy with TransMID Compared to Best Standard of Care in Patients with Progressive and/or Recurrent, Non-Resectable Glioblastoma Multiforme

Phase V GliSite Radiation Therapy System Registry Protocol for the Treatment of Resectable Malignant Brain Tumors

Industry-Sponsored Clinical Investigations [external data and safety monitoring board]

A combined phase I-II study of GRNOPC1 in patients with neurologically complete, subacute, thoracic spinal cord injury: Clinical safety in dose escalation. Sponsor: Geron Corporation (Menlo Park, CA)
PI: Edward D. Worth, III, MD, PhD

Grants Received (Active)

1U01CA140206 Quantitative Imaging to Assess Response in Cancer Therapy Trials

NCI, National Institutes of Health Direct Funds: \$607,188/yr
Period of Support: 04/01/2010–03/31/2015 Principal Investigator: Buatti (10%)

A Pilot, Phase II, Open Label, Nonrandomized, Multi-Center Study Of [F-18]HX4 Positron Emission Tomography (PET) To Detect Hypoxia In Tumors

Siemens Molecular Imaging, Inc Principal Investigator: Buatti
Period of Support: 11/08/2010 – 11/08/2012

Quantifying Radiation Induced Changes in Pulmonary Function in Irradiated and Non-Irradiated Lung Tissue

Carver Collaborative Trust Pilot Grant, University of Iowa Direct Funds: \$50,000
Period of Support: 02/01/2009–01/31/2011 Principal Investigator: Bayouth
Role: Co-Investigator (2%). Dr. Buatti serves as the physician for this clinical trial.

Using Ketogenic Diets to Enhance Radio-Chemo-Therapy Response: A Phase I Trial – R21

NIH Direct Funds: \$150,000 direct first year
Successful completion of this study will allow for future trials to assess the potential for ketogenic diets to be used as an adjuvant to cancer therapy with the potential of increasing the efficacy of standard therapies for NSCLC and pancreatic cancer.
Pending: 07/01/11 - 06/30/13 1.2 Cal months Principal Investigator: Spitz
Role: Co-Investigator

Completed –

Reflexology in Head and Neck Cancer Patients

Diana Benz Memorial Seed Grant, Holden Comprehensive Cancer Center Direct Funds: \$19,525
Period of Support: Principal Investigator: Nisly
Role: Co-Investigator

Healing Touch, Immunity and Fatigue in Breast Cancer

National Cancer Institute Direct Funds: \$150,000
Period of Funding: 7/03-7/06 Principal Investigator: Lutgendorf %
Role: Co-Investigator (1%)

Polyamine Modulation of Oncogene Expression in Human Glioblastoma Cell

ASTRO Research Fellowship Direct Funds: \$20,000
Period of Funding: 1 year Principal Investigator: Buatti

Innovations in Medical Education

The Vernon and Virginia Furrow Fund
 Period of Funding: 1 year

Direct Funds: \$1600
 Principal Investigator: Buatti (5%)

Clinical Oncology Fellowship

American Cancer Society Direct Funds: \$10,000
 Period of Funding: 1 year

Principal Investigator: Buatti

Polyamine Analogs as Modifiers of Radiosensitivity

RSNA Scholars Award
 Period of Funding: 1 year

Direct Funds: \$45,000
 Principal Investigator: Buatti (50%)

New Faculty Support (University of Florida)

Division of Sponsored Research
 Period of Funding: 1 year

Direct Funds: \$11,900
 Principal Investigator: Buatti (5%)

Cancer Center Planning Grant

University of Florida
 Period of Funding: 1993–1995

Direct Funds: \$64,000
 Principal Investigator: Buatti (10%)

American Cancer Society Career Development Award

American Cancer Society Direct Funds: \$90,000
 Period of Funding: 1994–1996

Principal Investigator: Buatti (50%)

RSNA Medical Student/Scholar Assistant Program

Radiological Society of North America
 Period of Funding: 1994 Principal Investigator: Buatti (5%)

Direct Funds: \$5,000

Bryan W. Robinson Neurological Foundation Award

Period of Funding: 1994 (1 yr)
 Role: Mentor (5%)

Direct Funds: \$2500
 Principal Investigator: Jeff Hunter

Stereotactic Injection of Herpes Simplex Thymidine Kinase Vector Producer Cells (PA317G1Tk1SvNa.7) and Intravenous Ganciclovir for the Treatment of Recurrent Malignant Glioma

Genetic Therapy Incorporated
 Period of Funding: 1995 PI: Maria
 Role: Co-Investigator (5%)

Direct Funds: \$25,000/patient contract

Stereotactic Radiosurgery Radioprotection by the Lazaroid U74389G in a Cat Model

Upjohn
 Period of Funding: 1 year

Direct Funds: \$8000
 Principal Investigator: Buatti (5%)

A Practical Guide to Stereotactic Radiosurgery

Springer-Verlag
 Period of Funding: 1 year
 The grant was endowed for textbook art

Direct Funds: \$2500
 Principal Investigator: Buatti (1%)

A Randomized Trial of Carbogen Breathing During Accelerated Hyperfractionated Radiotherapy for Head and Neck Cancer

University of Florida Medical Guild
 Period of Funding: 1 year

Direct Funds: \$500
 Principal Investigator: Buatti (< 5%)

Radiation Induced Gene Therapy for Malignant Gliomas

Univ. of Florida College Incentive Fund/Research Development Award
 Period of Funding: 1 year

Direct Funds: \$27,000
 Principal Investigator: Buatti (10%)

Phase III Multicenter, Randomized Double Blind, Placebo-Controlled Trial of Polifeprosan 20 with Carmustine 3.85% Implant in Patients Undergoing Initial Surgery for Newly Diagnosed Malignant Gliomas

Rhone-Poulenc Rorer, Inc.
 Period of Funding: 1 year

Direct Funds: \$8000/patient contract
 Principal Investigator: Buatti (< 5%)

Improved Patient Localization for External Beam Radiotherapy

Whitaker Foundation
 Period of Funding: 1999–2003
 Role: Co-Investigator (5%)

Direct Funds: \$183,169
 Principal Investigator: Meeks

Ultrasound guided optical stereotactic navigational system

NIH -NCI (Multi-Institutional R33)
 Period of Funding: 1/2001–1/2004
 Role: Co-Investigator (5%)

Direct Funds: \$604,378
 Principal Investigator: Lattanzi

P20 – Molecular Imaging of Responses to Cancer Therapy

NIH –NCI RFA CA-01-010
 Period of Funding: 3/2001–3/2004
 Role: Co-Investigator (2.5%)

Direct Funds: \$1,424,634
 Principal Investigator: Graham

Extracranial stereotactic radiotherapy

Medtronic/ZMed Direct Funds: \$227,807
 Period of Funding: 10/2000–10/2001

Principal Investigator: Buatti (n/a)

Neuro-Oncology in the New Millennium

UIHC New Clinical Initiative
 Period of Funding: 6/2001–3/2002

Direct Funds: \$211,750
 Principal Investigator: Buatti (n/a)

Development of High Dose Rate (HDR) Brachytherapy Treatment

UIHC New Clinical Initiative
 Period of Funding: 7/2001–6/2004
 Role: Co-Author

Direct Funds: \$475,590
 Principal Investigator: Meeks

Ultrasound Guided Optical Stereotactic Navigational System

Community Medical Center Foundation
 Period of Funding: 06/2001–05/2004

Principal Investigator: Buatti

Molecular Imaging of Responses to Cancer Therapy

NIH

Period of Funding: 06/2001–05/2004
 Role: Advisor

Principal Investigator: Graham

F-18 Fluorothymidine (FLT) Positron Emission Tomography (PET) Imaging in Squamous Cell Head and Neck Cancer Patients Treated with Concurrent Chemotherapy and Radiotherapy

Holden Comprehensive Cancer Center Seed Grant

Period of Funding: 01/2004–12/2004

Role: Co-Investigator

Principal Investigator Dornfeld

The Use of 2-Deoxy-d-glucose and Stereotactic Radiosurgery for Intracranial Malignancies.

Roy J. Carver Charitable Trust

Period of Funding: 01/01/2004–12/31/2006

Role: Co-Principal Investigator

Principal Investigator Dornfeld

A Phase III Multicenter Study of Intratumoral/Interstitial Therapy with TransMid Compared to Best Standard of Care in Patients with Progressive and/or Recurrent, Glioblastoma Multiforme

Zenova, Biomedix, Ltd.

Period of Funding: 09/2004–03/2006

Role: Co-Principal Investigator

Principal Investigator: Ryken

F-18 Fluorothymidine (FLT) Positron Emission Tomography (PET) Imaging in Squamous Cell Head and Neck Cancer Patients Treated with Concurrent Chemotherapy and Radiotherapy

Source: Roy J. Carver Charitable Trust

Period of Funding: 04/2004–03/2007

Role: Co-Investigator

Principal Investigator: Dornfeld

Phase V GliaSite® Radiation Therapy System Registry Protocol for the Treatment of Resectable Malignant Brain Tumors

Proxima Therapeutics

Period of Funding: 05/2004–05/2006

Role: Co-Principal Investigator

Principal Investigator: Ryken

Respiratory Gating for 4D-RT

Siemens

Period of Funding: 6/2005–6/2008

Role: Co-Investigator

Direct Funds: \$360,000

Principal Investigator: Bayouth

3P30CA086862 Iowa Imaging Response Assessment Team (IRAT)

NCI, National Institutes of Health Direct Funds: \$167,458

Period of Funding: 11/2005–10/2008

Role: Co-Investigator

Principal Investigator: Weiner

NIH P30 CA086862: Cancer Center Support Grant (CCSG)

NCI, National Institutes of Health

Period of Support: 08/15/2005–06/30/2010

Role:

Co-Program Leader: Tumor Imaging Program (5%). Dr. Buatti provides services and scientific input into the Holden Comprehensive Cancer Center (HCCC) at the University of Iowa

Principal Investigator: Weiner

NIH 1R21CA13028101: Imaging Thymidine Uptake During Treatment for Head and Neck Cancer

NCI, National Institutes of Health

Period of Support: 08/01/2007–07/31/2010 Principal Investigator: Menda
 Role: Co-Principal Investigator (2%)

Treatment of Adults with Newly Diagnosed Glioblastoma Multiforme or Anaplastic Astrocytoma with Surgery, Gliadel® Wafers and Limited Field Radiation Plus Concomitant Temozolomide Followed by Adjuvant Temozolomide.

Guilford Pharmaceuticals Direct Funds: \$180,000
 Period of Support: 05/01/2005–04/07/2011 Principal Investigator: Buatti (1%)

Invited lectures

1. University of Chicago, Department of Radiation Oncology, Chicago, IL. “Polyamine Modulation of c-myc Expression and its Effects on Radioresponses of Human Glioblastoma Cells.” 1992.
2. University of Michigan, Department of Radiation Oncology, Ann Arbor, MI. “Polyamine Modulation of c-myc Expression and its Effects on Radioresponses of Human Glioblastoma Cells.” 1992
3. MD Anderson Hospital, Department of Radiation Oncology, Houston, TX. “Polyamine Modulation of c-myc Expression and its Effects on Radioresponses of Human Glioblastoma Cells.” 1992
4. University of Florida, Department of Radiation Oncology, Gainesville, FL. “Polyamine Modulation of c-myc Expression and its Effects on Radioresponses of Human Glioblastoma Cells.” 1992
5. Refresher Course entitled “The Role of Radiation in Cancer Pain and Symptom Management.” American Pain Society Meeting, Orlando FL, November 1993. Co-presenters: Geri Doran Yanes MD, Nora Janjan MD. 1993.
6. 24th Annual Radiation Oncology Clinical Research Seminar. University of Florida, Gainesville, FL. “Stereotactic Radiosurgery for Malignant Intracranial Neoplasms”. 1994
7. 5th Annual Shands Hospital Radiation Therapists Seminar. University of Florida. “Fractionation in Radiation Therapy Clinical and Radiobiological Emphasis”. Gainesville, FL. February 1994.
8. Radiologic Technologists Meeting, University of Florida. “Cancer Prevention in 1994”. Gainesville, FL. May 19, 1994.
9. University of Florida Tumor Registry Meeting. “Stereotactic Radiosurgery for the Treatment of Malignant Intracranial Neoplasms”. Gainesville, FL. October 1994.
10. 6th Annual Radiation Oncology Clinical Research Seminar, University of Florida. Accelerated Hyperfractionated Radiotherapy for Malignant Gliomas”. Gainesville, FL. February 1995.
11. 6th Annual Shands Hospital Radiation Therapists Seminar, University of Florida. “Treatment of Brain Tumors with Stereotactic Radiosurgery”. Gainesville, FL. February 1995.
12. Florida Radiological Society, “Stereotactic Radiosurgery for Intracranial Neoplasms”. St. Petersburg, FL. May 20, 1995.
13. First Annual X-Knife Consortium Meeting. “New Functionality in Stereotactic Treatment Planning”. Boston, MA. June 13, 1995.
14. First Annual X-Knife Consortium-Panel Discussion Session on: “Future Directions of Linac Radiosurgery”. Boston, MA. June 13, 1995.

15. The University of Florida Shands Cancer Center Seminar. "Stereotactic Radiosurgery: An Introduction to Clinical and Basic Science Research Programs". Gainesville, FL. May 17, 1995.
16. Linac Radiosurgery 1995 Meeting. "Why Do Radiosurgery? - The History of Radiosurgery and an Overview of Clinical Results". Orlando, FL. December 1995.
17. Linac Radiosurgery 1995 Meeting. "Experimental Radiosurgery". Orlando, FL. December 1995.
18. Linac Radiosurgery 1995 Meeting. "University of Florida Treatment Planning Algorithm." Orlando, FL. December 1995.
19. Linac Radiosurgery 1995 Meeting. "Practical Course on Stereotactic Radiosurgery Treatment Planning". Orlando, FL. December 1995.
20. Linac Radiosurgery 1995 Meeting. Moderator of Open Scientific Session on Malignant Tumors. Orlando, FL. December 1995.
21. Linac Radiosurgery 1995 Meeting. Discussant Acoustic Schwannomas Case Presentations and Questions. Orlando, FL. December 1995.
22. X-Knife Consortium Annual Meeting 1995. "Optimization for Stereotactic Radiotherapy versus Stereotactic Radiosurgery". Orlando, FL. December 1995.
23. X-Knife Consortium Annual Meeting 1995. Moderator: "Case Discussion: Which Treatment is Optimal? Surgery, Conventional Radiotherapy, Radiosurgery, Stereotactic Radiotherapy, etc." Orlando, FL. December 1995.
24. 26th Annual Radiation Oncology Clinical Research Seminar. "Stereotactic Radiosurgery for Intracranial Metastases". University of Florida, Gainesville, FL. February 22-24, 1996.
25. 7th Annual Shands Hospital Radiation Therapists Seminar. "Achieving Improved CNS Tolerances with Radiation Therapy". University of Florida, Gainesville, FL. February 23-24, 1996.
26. Gilbert H. Fletcher Society Meeting. "Stereotactic Radiosurgery for Acoustic Schwannomas". Williamsburg, VA. April 1996.
27. Angels in the Sun Brain Tumor Support Group. "Experimental Approaches for the Treatment of Malignant Glioma". Sarasota, Florida. May 20, 1996.
28. Florida Radiological Society. "Stereotactic Radiosurgery for Intracranial Metastasis". Boca Raton, Florida. June 7, 1996.
29. Florida Radiological Society. "Primary Treatment of Benign Meningioma". Boca Raton, Florida. June 7, 1996.
30. Pediatric Oncology Group. "Treatment Planning for Linac Radiosurgery." Chicago, IL. October 19, 1996.
31. Conference: The Role of Radiotherapy in Hospice Care. "Management of Brain Metastases." Gainesville, FL. October 25, 1996.
32. Project Decide: Choices in Dying. Sponsored by Hospice of North Central Florida and AV Med Health System. "Palliative Care". Gainesville, FL. November 1996.
33. Linac Radiosurgery 1996. "The University of Florida Treatment Planning Algorithm". Orlando, FL. December 1996.
34. Linac Radiosurgery 1996. "Gene Therapy for Malignant Gliomas". Orlando, FL. December 1996.
35. Linac Radiosurgery 1996. "The Future of Radiosurgery-New Frontiers", Orlando, FL. December 1996.

36. Pediatric Neuro-oncology Conference. "Introduction to Stereotactic Radiosurgery and Stereotactic Radiotherapy". Gainesville, FL. February 1997.
37. 27th Annual Radiation Oncology Clinical Seminar. University of Florida. "Stereotactic Radiosurgery for Malignant Gliomas". Orlando, FL. February 6-8, 1997.
38. 27th Annual Radiation Oncology Clinical Seminar. University of Florida. "Gene Therapy: New Clinical Opportunities for Radiation Oncologists". Orlando, FL. February 6-8, 1997.
39. Gene Therapy Workshop. University of Florida, "Radiation and Gene Therapy". Gainesville, FL. February 15, 1997.
40. Rhone-Poulenc Rorer Oncology Dinner Program. "Latest Treatment of Malignant Gliomas". Gainesville, FL. April 3, 1997.
41. Pediatric Oncology Group. "Fractionated Stereotactic Radiotherapy for Pediatric Brain Tumors". St. Petersburg, FL. April 17-20, 1997.
42. Pediatric Oncology Group Meeting. Radiobiology Subcommittee. "Lymphocyte DNA damage-repair and Apoptotic Response to Irradiation as an Indicator of Second Malignancy Susceptibility in Childhood Tumors". St. Petersburg, FL. April 17-20, 1997.
43. Angels in the Sun Brain Tumor Support Group. "Radiotherapy and Brain Tumors: New Technologies and Challenges". Sarasota, FL. May 19, 1997.
44. Visiting Professor: "Stereotactic Radiosurgery Treatment Planning." Windsor Regional Cancer Centre, Windsor, Ontario. May 22, 1997.
45. Visiting Professor: "Why Do Radiosurgery?" Hotel-Dieu Grace Hospital, Windsor, Ontario. May 22, 1997.
46. Rhone-Poulenc Rorer Oncology Dinner Program. "Latest Treatment of Malignant Gliomas". Jacksonville, FL. June 11, 1997.
47. International Stereotactic Radiosurgery Society. "Linac Dose Planning Tools". Madrid, Spain. June 25-28, 1997.
48. International Stereotactic Radiosurgery Society. "Stereotactic Radiosurgery for Malignant Gliomas". Madrid, Spain. June 25-28, 1997.
49. International Stereotactic Radiosurgery Society. Practical Course. "Stereotactic Radiosurgery Surgical Navigation Technologies". Madrid, Spain. June 25-28, 1997.
50. International Stereotactic Radiosurgery Society. "How I do it-UF Dose Planning Demonstration". Co-Presenters: William A. Friedman and Francis Bova. Madrid, Spain. June 25-28, 1997.
51. International Stereotactic Radiosurgery Society. Moderator of the Open Scientific Session on Benign Tumors. Madrid, Spain. June 25-28, 1997.
52. American Society for Therapeutic Radiology and Oncology. "Preliminary Experience with Frameless Stereotactic Radiotherapy". Orlando, FL. October 22, 1997.
53. American Society for Therapeutic Radiology and Oncology. Moderator: Scientific Session T; "Stereotactic Radiotherapy". Orlando, FL. October 22, 1997.
54. Linac Radiosurgery 1997. "The University of Florida Dose Planning Algorithm". Orlando, FL. December 1997.
55. Linac Radiosurgery 1997. "Metastases: Surgery or Radiosurgery?" Orlando, FL. December 1997.
56. Linac Radiosurgery 1997. "The Radiobiology of Radiosurgery." Orlando, FL. December 1997.
57. Linac Radiosurgery Scientific Session: Technical Advances II, Moderator, Orlando, FL. December 1997.

58. Arteriovenous Malformations: Case Presentation, Discussant. Orlando, FL. December 1997.
59. Practical Course: Linac Radiosurgery. Surgical Navigation Technologies. Orlando, FL. December 1997.
60. 28th Annual Radiation Oncology Seminar. University of Florida. "Preliminary Experience with Frameless Stereotactic Radiotherapy." Gainesville, FL. January 1998.
61. 28th Annual Radiation Oncology Seminar. University of Florida. "Clinical Perspective: Therapeutic Ratio." Gainesville, FL. January 1998.
62. Visiting Professor: "Optimal Treatment Planning Techniques for Radiosurgery." and "Stereotactic Radiotherapy at the University of Florida. State University of New York at Stony Brook. Stony Brook, New York. May 6, 1998.
63. 3rd Asia-Pacific Minimally Invasive Neurosurgery Seminar. "Stereotactic Radiotherapy at the University of Florida". Singapore. May 1998
64. Congress of Neurosurgeons, Luncheon Seminar: "Metastases, Surgery or Radiosurgery." Seattle, WA. October 5, 1998.
65. Practical Course: Radiosurgery. Congress of Neurosurgeons. Seattle, WA. October 4, 1998. (Panel discussion and demonstration)
66. American Society for Therapeutic Radiology and Oncology. Presidential Categorical Course: "The Prominent Role of Radiation in the Treatment of Meningiomas." Phoenix, AZ. October 25, 1998.
67. Bethesda Memorial Hospital Medical Staff Meeting. "Stereotactic Radiosurgery: Advances and Indications". Boynton Beach, FL. October 29, 1998.
68. Linac Radiosurgery 1998: "Frameless Radiosurgery: What are the Specs" Orlando, FL. December 1998.
69. Linac Radiosurgery 1998: "The University of Florida Dose Planning Algorithm" Orlando, FL. December 1998.
70. Linac Radiosurgery 1998: Practical Course: Sofamor Danek. Orlando, FL. December 1998.
71. Linac Radiosurgery 1998: "The Role of Radiosurgery for Metastases: What are the Limits" Orlando, FL. December 1998.
72. Linac Radiosurgery 1998: Moderator: Malignant Tumors with Case Presentations and Discussion Panel" Orlando, FL. December 1998.
73. Linac Radiosurgery 1998: Moderator: Open Scientific Session-Malignant Tumors. Orlando FL. December 1998.
74. Linac Radiosurgery 1998: Moderator: Meningiomas-Case Presentations and Discussion. Orlando, FL. December 1998.
75. Review Course in Neurological Surgery (Sponsored by Rush-Presbyterian-St. Luke's Medical Center) "Stereotactic Radiosurgery" Chicago, IL. January 31, 1999.
76. International Stereotactic Radiosurgery Society Scientific Meeting. "Radiosurgery Research: Experimental Studies". Sydney, Australia. February 1999.
77. International Stereotactic Radiosurgery Society Scientific Meeting. "Moderator- Open Scientific Session-Benign Tumors". Sydney, Australia. February 1999.
78. International Stereotactic Radiosurgery Society Scientific Meeting. "Clinical Specifications for Fractionated Stereotactic Radiotherapy" Sydney. Australia. February 1999.

79. Endocrinology Teaching Conference-“Stereotactic Radiation and Implications for the Pituitary Region” Gainesville, FL. March 1, 1999.
80. 29th Annual Radiation Oncology Seminar. University of Florida. “Atypical and Malignant Meningiomas Treated with Accelerated Hyperfractionated Radiotherapy.” Gainesville, FL. March 11, 1999.
81. 29th Annual Radiation Oncology Seminar. University of Florida. “A Randomized Trial of Carbogen Breathing with Accelerated Hyperfractionated Radiotherapy for Head and Neck Cancer: Preliminary Report.” Gainesville, FL. March 11, 1999.
82. Stereotactic Radiosurgery and Radiotherapy Seminar, "The UF Treatment Planning Algorithm" Gainesville, FL. April 8, 1999.
83. Stereotactic Radiosurgery and Radiotherapy Seminar, “Dose Selection for Radiosurgery” Gainesville, FL, April 8, 1999.
84. Stereotactic Radiosurgery and Radiotherapy Seminar “Stereotactic radiotherapy, What are the Specs?” Gainesville, FL. April 8, 1999.
85. Stereotactic Radiosurgery and Radiotherapy Seminar “Optimizing Radiosurgery: The Team Approach” Gainesville, FL. April 8, 1999.
86. University of Iowa, “Stereotactic Radiotherapy: Clinical Specifications” Iowa City, IA, April 15, 1999.
87. Wake Forest University Medical Center, “Image Guided Radiation Therapy: Technique and Application” Winston-Salem, NC. April 22, 1999
88. 67th Annual Meeting of the American Association of Neurological Surgeons, "Primitive Neuroectodermal Tumors in Childhood: Current Management and Outcomes" Seminar Panelist. New Orleans, LA. April 26, 1999.
89. 67th Annual Meeting of the American Association of Neurological Surgeons, "Management of Fourth Ventricle Tumors" Seminar Panelist, New Orleans, LA. April 27, 1999.
90. Gulf Coast Cancer Treatment Center Hospital Tumor Board, "Stereotactic Approaches to Central Nervous System Tumors" Panama City, FL. May 26, 1999.
91. North Florida Regional Medical Center, “Brain Metastases – Symptoms and Management” Gainesville, FL. June 17, 1999
92. Stereotactic Radiosurgery and Radiotherapy Seminar, "The UF Treatment Planning Algorithm" Gainesville, FL. July 18, 1999.
93. Stereotactic Radiosurgery and Radiotherapy Seminar, “Dose Selection for Radiosurgery” Gainesville, FL. July 18, 1999.
94. Stereotactic Radiosurgery and Radiotherapy Seminar “Stereotactic radiotherapy, What are the Specs?” Gainesville, FL. July 18, 1999.
95. Stereotactic Radiosurgery and Radiotherapy Seminar, "The UF Treatment Planning Algorithm" Gainesville, FL. Aug. 22, 1999.
96. Stereotactic Radiosurgery and Radiotherapy Seminar, “Dose Selection for Radiosurgery” Gainesville, FL. Aug. 22, 1999.
97. Stereotactic Radiosurgery and Radiotherapy Seminar “Stereotactic radiotherapy, What are the Specs?” Gainesville, FL. Aug. 22, 1999.
98. Visiting Professor: Long Island Jewish Medical Center. “Stereotactic radiosurgery and radiotherapy: what are the indications?” Lake Success, NY. September 8, 1999.

99. American Society of Therapeutic Radiology and Oncology 41st Annual Meeting. Seminar Panelist "Clinical Application of Advanced Technology Radiotherapy for Pediatric Brain Tumors". San Antonio, TX, Nov. 3, 1999.
100. Linac Radiosurgery 1999: "Optimizing Radiosurgery: The Team Approach." Orlando, FL, December 1999.
101. Linac Radiosurgery 1999: "University of Florida Dose Planning Algorithm". Orlando, FL, December 1999.
102. Linac Radiosurgery 1999: "Dose Selection". Orlando, FL, December 1999.
103. Linac Radiosurgery 1999: "Extracranial Radiosurgery ". Orlando, FL, December 1999.
104. Linac Radiosurgery 1999 "Stereotactic Radiotherapy for Chordomas & Chondrosarcomas". Orlando, FL, December 1999.
105. Linac Radiosurgery 1999: Session moderator; "Linac Radiosurgery – A Practical Approach." Orlando, FL, December 1999.
106. Review Course in Neurological Surgery. "Radiosurgery". January 31, 2000. Chicago, IL. (Compass Medical Education Network).
107. Medtronic-Sofamor Danek Training Course. "Stereotactic Treatment Planning." Gainesville, FL, Brain Institute. March 26, 2000.
108. 68th Annual Meeting of the American Association of Neurological Surgeons, "Novel Treatments for Malignant Brain Tumors" Seminar Panelist. San Francisco, CA. April 10, 2000.
109. Practical Course in Stereotactic Radiosurgery. 68th Annual Meeting of the American Association of Neurological Surgeons. San Francisco, CA, April 2000.
110. Department of Neurosurgery Saturday Resident Conference. "Introduction to Radiation Therapy: Radiobiologic Considerations." April 29, 2000
111. University of Iowa Brain Tumor Support Group. "Radiation Therapy." May 2, 2000.
112. University of Iowa Cancer Center Forum. "Advanced Technology Radiation Therapy: New Opportunities." May 23, 2000.
113. Department of Neurosurgery Saturday Resident Conference. "Radiosurgery Treatment Planning and Dose Selection." June 10, 2000.
114. First Annual University of Iowa Radiation Oncology Symposium. "Stereotactic Radiotherapy for Pediatric Brain Tumors." June 17, 2000.
115. "Stereotactic Treatment Planning; Dose Solutions for Radiosurgery and Stereotactic Radiotherapy Clinical Applications." Medtronic Training Course. First Annual Japanese Non-invasive Stereotactic Radiation Meeting. Hiroshima University, Japan. June 19-21, 2000.
116. Cedar Rapids Oncology Tumor Board. "Advanced Technology Stereotactic Radiotherapy." Mercy Hospital, Cedar Rapids, Iowa. July 10, 2000.
117. Congress of Neurological Surgeons Annual Meeting. "Radiosurgery as a Multidisciplinary Procedure." San Antonio, TX. September 23, 2000.
118. "Stereotactic Radiosurgery Procedures." In-service to UI radiation therapists. October 11, 2000.
119. "Current Radiotherapy for Prostate Cancer." UI Prostate Cancer Research Group. November 3, 2000.
120. Radiological Society of North American: Refresher Course. "Stereotactic Radiosurgery for CNS Tumors." November 2000.

121. Linac Radiosurgery 2000: "Linac Radiosurgery Dose Planning Algorithm." Orlando FL. December 7, 2000.
122. Linac Radiosurgery 2000: "Dose Selection." Orlando FL December 7, 2000.
123. Linac Radiosurgery 2000. Practical Course. Z-MED. Orlando FL December 7, 2000.
124. Linac Radiosurgery 2000. "What's New in Extracranial Radiosurgery." Orlando FL December 8, 2000.
125. Linac Radiosurgery 2000. "Case Discussion, Benign Tumors-Panel." Orlando FL December 8, 2000.
126. Linac Radiosurgery 2000. "Emerging Therapies for Low Grade Gliomas." Orlando FL December 9, 2000.
127. Linac Radiosurgery 2000. "Panel-Case Discussion. Malignant Tumors." Orlando FL December 9, 2000.
128. Lung Cancer: The Evidence-Based Approach for 2001 and Beyond Seminar. "Lung Cancer Radiotherapy: Current and Future Techniques". Cedar Rapids, IA. January 20, 2001.
129. 2nd Annual Upper Midwest Brain Tumor Symposium. "Radiation Therapy Update". Bloomington, MN. March 23, 2001.
130. 2001 Surgical Update for Nurses. "Stereotactic Surgery". Iowa City, IA, March 27, 2001.
131. 2001 AANS Annual Meeting, "Malignant Brain Tumors: State-of-the-Art Treatment". Toronto, Ontario, Canada. April 23, 2001.
132. 2001 AANS Annual Meeting, "Low Grade Gliomas: State-of-the-Art Treatment. Toronto, Ontario, Canada. April 24, 2001.
133. 2001 AANS Annual Meeting, "Intraarterial Chemotherapy Followed by Radiation Therapy Prolongs Survival in High-Grade Astrocytoma." Toronto, Ontario, Canada, April 25, 2001.
134. 2001 AANS Annual Meeting, "Management of the Difficult Meningioma" Toronto, Ontario, Canada. April 25, 2001.
135. International Stereotactic Radiosurgery Society Meeting. Faculty of radiosurgery practical course. Las Vegas, NV. June 10, 2001.
136. International Stereotactic Radiosurgery Society Meeting. "Pituitary Adenomas Medical Therapy, Surgery, Radiation Therapy and Radiosurgery. Las Vegas, NV. June 11, 2001
137. International Stereotactic Radiosurgery Society Meeting. "Experimental SRS". Las Vegas, NV. June 13, 2001.
138. International Stereotactic Radiosurgery Society Meeting. "Uncommon Lesions- What is the Data? Las Vegas, NV. June 13, 2001.
139. International Stereotactic Radiosurgery Society Meeting. Moderator of Extracranial Stereotaxis Section. Las Vegas, NV. June 13, 2001.
140. Thoracic Oncology Conference, Clinical Cancer Center University of Iowa – Advanced Technology Radiation Therapy for Lung Cancers. Sept. 6, 2001.
141. Radiological Society of North American: Refresher Course. "Stereotactic Radiosurgery for CNS Tumors." Chicago, IL. November 2001.
142. 2002 Scofield Advanced Oncology Nursing Conference. "Stereotactic Radiosurgery" Coralville, IA. April 2002.

143. 2002 JASTRO “Extracranial radiosurgery: Current techniques and clinical applications.” Tokyo, Japan. November 2002.
144. University of Iowa Pediatric Tumor Board: Update on Radiation Oncology for Pediatric Tumors. 2002.
145. University of Minnesota and University of Iowa Joint Meeting of Head and Neck Oncology. “Alternative Techniques for Enhancement of the Therapeutic Ratio in HNSCC.” Minneapolis, MN. February 21, 2003.
146. University of Iowa Neurology Grand Rounds: Treatment of Trigeminal Neuralgia 2003.
147. International Stereotactic Radiosurgery Society Meeting. “Stereotactic hypothesis: Has it been proven?” Kyoto, Japan. June 23, 2003.
148. University of Iowa Head & Neck Cancer & Reconstructive Surgery, Laser & Sinus Courses. “Melanoma Cases”. Iowa City, IA. June 11, 2003.
149. Department of Human Oncology and University of Wisconsin Comprehensive Cancer Center Imaging and Radiation Sciences Seminars. “Clinical Application of Extracranial Stereotactic Radiosurgery”. Madison, WI. February 2003.
150. University of Iowa Brain Tumor Support Group: Update on Radiation Oncology. April 2004.
151. University of Iowa Head & Neck Cancer & Reconstructive Surgery, Laser & Sinus Courses. “Laryngeal Cancer Cases”. Iowa City, IA. June 7, 2004.
152. University of Iowa Head & Neck Cancer & Reconstructive Surgery, Laser & Sinus Courses. “Salivary Gland Cases”. Iowa City, IA. June 10, 2004.
153. LINAC Radiosurgery, Consultation Corner, Orlando, FL. December 2004
154. LINAC Radiosurgery, Panel Member, Acoustic Schwannomas, Orlando, FL. December 2004
155. LINAC Radiosurgery, Meningiomas: Case Presentations, Orlando, FL. December 2004.
156. LINAC Radiosurgery, Metastatic Tumors: Case Presentations, Orlando, FL. December 2004.
157. Visiting Professor Medical College of Virginia Lecture. “Current State of Stereotactic Radiation Therapy and Radiosurgery” February 2005.
158. Pediatric Radiation Therapy Update: Pediatric Hematology Oncology Conference – University of Iowa February 2005.
159. Iowa Surgical Conference: University of Iowa – New Applications of Radiation Therapy – November 2004.
160. Siemen’s User Group Meeting – 2D and 3D Image Guidance for Hypofractionated Radiation Therapy, Denver CO. October 2005.
161. Visiting Professor Ohio State University – “Stereotactic Image-guided Radiosurgery and Radiotherapy” and “Challenges in Extracranial Applications for Radiosurgery”. March 2006.
162. Scofield Advanced Oncology Nursing Conference. Lecture: “Increasing Efficacy/Decreasing Toxicity: The New Focus of Radiation Oncology”. April 2006.
163. Cancer Survivors’ Day 2006: Cancer Family Reunion. Guest speaker. June 2006.
164. Internal Medicine Grand Rounds – University of Iowa. “Image Guided Radiation Therapy for the Internist”. July 2006
165. Pediatric Hematology/Oncology Noon Conference - Division Educational Conference – University of Iowa. "New Stimulation Techniques in Pediatric Radiation Therapy". August 2006.

166. Visiting Professor Baylor College of Medicine – “New Simulation Techniques for Radiation Therapy” and “Stereotactic Radiosurgery Update.” October 9, 2006.
167. Siemen’s Adaptive Radiation Therapy Forum. Philadelphia, PA. November 4, 2006.
168. Dermatology Grand Rounds University of Iowa. January 2007.
169. The IRAT Network, Second Annual Workshop, Tempe, AZ. “Improving interaction between oncologists and radiologists and strategies for integrating imaging into clinical trials” February 13, 2007
170. First International Symposium on Stereotactic Body Radiation Therapy and Stereotactic Radiosurgery Conference. Plenary session “Current and Future Trends in Radiosurgery”, Orlando, FL February 24, 2007.
171. Rotary Club, Davenport, IA March 26, 2007
172. Pediatric Nursing 2007 – “New Stimulation Techniques in Pediatric Radiation Therapy” Coralville, IA April 27, 2007
173. North American Skull Base Society 18th Annual Meeting – Seminar “Management of Jugular Foramen Tumors”. Chicago, IL May 27, 2007
174. Skinner, Sheraden, Schneider, & Myers Wealth Management Group at Smith Barney – “Image Guided Radiation Therapy.” Iowa City, IA June 21, 2007.
175. Image Guided Radiation Therapy for the Ophthalmologist (Part I & Part II) September 2007.
176. ISTR0 Meeting – “PET/CT in Oncology” Coralville, IA, September 24, 2007.
177. Siemens’ Pre-Show Meeting – “The Future of Radiation Oncology” ASTRO Meeting, Los Angeles, CA, October 26, 2007
178. Chula Medical Expo – “Clinical Application of PET/CT in Oncology”; “Image Guided Radiation Therapy”; “Respiratory Gating in Therapy”. Thailand, October 2007.
179. Siemens’ Art Forum – “Image Guidance in Clinical Practice, Protocols, Experience, Benefits. Los Angeles, CA October 27, 2007.
180. 2007 Update for Nurses – “Image Guided Radiation Therapy”, Holiday Inn, Coralville, IA November 1, 2007.
181. Visiting Professor University of Virginia January 8, 2008.
182. Iowa Neurological Association Annual Meeting. “Directed Radiation Therapy.” Marriott Coralville Hotel & Conference Center, Coralville, IA February 23, 2008
183. Massachusetts Radiological Society, Inc. 2008 Annual Meeting. “Present and Future Role of Imaging in Radiation Oncology.” Boston, MA. March 5, 2008.
184. 2008 ASTRO IGRT Image Guided Radiotherapy Symposium. Workshop “IGRT How to: CNS and Head & Neck” “Eyes on Screen Practicum”. Newport Beach, CA March 28-30, 2008.
185. Presentation to The Board of Regents, State of Iowa, Marriott Hotel, Coralville, IA September 17, 2008.
186. Siemens Workshop Heidelberg, Germany October 16-18, 2008
187. Cleveland Clinic SBRT/SRS Symposium. “Radiosurgery in the Future: New Techniques and Applications”. Orlando, FL, February 20-22, 2009.
188. Iowa Cancer Registrars Association, Spring 2009 Educational Workshop. “Image Guided Radiation Therapy”. University Capital Centre, Iowa City, IA, April 9, 2009.

189. ASTRO IGRT and SBRT Conference. “IGRT for Head and Neck Cancer.” Miami, FL, May 15-17, 2009
190. Annual ISTRO. “Image Guided radiation therapy in head and neck cancers”. Mercy Hospital, Des Moines, IA, September 12, 2009.
191. Siemens’ ART Forum. “Stereotactic Radiosurgery: Liver”. Chicago, IL, Oct 31, 2009.
192. ASTRO 51st Annual Meeting. Scientific Panel (speaker) “Utilization of Quantitative Imaging (QI) for Tumor Response Assessment. Chicago, IL, Nov 1-5, 2009.
193. 2010 Current State of the Art Techniques for IMRT, IGRT and SBRT Symposium, May 14-16, Dallas, TX.
194. Advanced Technology Consortium Meeting. “Quantitative Imaging Network”. Philadelphia, PA June 17, 2010.
195. RRS 56th Annual Meeting, Scholars-In-Training Workshop. “Radiotherapy in the clinic”. Maui, Hawaii September 25, 2010
196. Moderator - Scientific Session at ASTRO’s 52nd Annual Meeting in San Diego, November 2010
197. Linac Radiosurgery 2010. Body and Respiratory Gated Planning Demonstration with John Bayouth, PhD. Orlando, FL Dec 9-12, 2010
198. Linac Radiosurgery 2010. Non-Acoustic Schwannomas. Orlando, FL Dec 9-12, 2010
199. Linac Radiosurgery 2010. Moderator: Schwannomas and Meningiomas: Case Presentations. Orlando, FL Dec 9-12, 2010
200. Linac Radiosurgery 2010. Lung Radiosurgery: The Next Frontier. Orlando, FL Dec 9-12, 2010
201. Dermatology Grand Rounds – University of Iowa. “Radiation Therapy for the Dermatologist”. February 2011.
202. AANS Annual Scientific Meeting, Denver, CO April 10, 2011
203. Palliative Care Conference – University of Iowa. “Palliative Radiation”. May 11, 2011

Patents

U.S. Patent 6,390,982: Ultrasonic guidance of target structures for therapeutic application

Inventors: FJ Bova, SL Meeks, WA Friedman, JM Buatti

May 21, 2002

Australian Patent 764,768: Ultrasonic guidance of target structures for medical procedures

Inventors: FJ Bova, **JM Buatti**, WA Friedman, SL Meeks

July 15, 2004

IV. Service

Professional Memberships

1989- <i>present</i>	American Society for Therapeutic Radiation and Oncology
1989- <i>present</i>	Radiation Research Society
1992-1996	American College of Physicians
1992- <i>present</i>	American College of Radiology
1993-2000	American Association for the Advancement of Science
1993-1996	American Society of Clinical Oncology
2001- <i>present</i>	American Society of Clinical Oncology
1993- <i>present</i>	International Stereotactic Radiosurgery Society
1995- <i>present</i>	Pediatric Oncology Group / Children's Oncology Group
1999	Board Member - Stop Children's Cancer Inc., Gainesville, FL
1999- <i>present</i>	University of Iowa Cancer Center
2000- <i>present</i>	Iowa Medical Society
2000- <i>present</i>	Johnson County Medical Society
2000- <i>present</i>	Iowa Chapter of the American College of Radiology, Iowa Society of Therapeutic Radiology and Oncology
2000- <i>present</i>	Society for Neuro-Oncology
2003- <i>present</i>	American Medical Association
2009- <i>present</i>	Radiological Society of North America

Clinical Service

1999–2005	Clinic Director, Department of Radiation Oncology
1999–2002	Lead participant, thoracic oncology service
1999– <i>present</i>	Specialty services in stereotactic radiosurgery and radiotherapy, central nervous system tumors, and intensity modulated radiotherapy. Began treating patients with extracranial radiosurgery in 2001
2000– <i>present</i>	Co-Director, Neuro-Oncology Program, The Holden Comprehensive Cancer Center Developed new techniques in stereotactic radiosurgery and stereotactic radiotherapy. Optically-guided extracranial stereotactic radiotherapy and radiosurgery are new programs established within the past five years. In addition, a new neuro-oncology clinic and tumor board was established in 2003.
2000–2003	Lymphoma service, including total body irradiation
2001–2003	Gynecologic oncology & breast service
2001–2003	Prostate oncology service, including implants

Editorships

1998– <i>present</i>	Editorial board member, <i>Select Review in Neuro-Oncology</i>
1999–2003	Editorial board member, <i>Neuro-Oncology</i>

- 2001–*present* Editorial board member, *Journal of Neuro-Oncology*
- 2006–*present* UpToDate® Peer Reviewer in Oncology
- 2008 Guest editor, *Imaging Decisions MRI* [Volume 12, issue 1, 2008]
- 2009–*present* Editorial board member, International Journal of Radiation Oncology, Biology, Physics

Reviewer —Peer-reviewed journals

International Journal of Radiation Oncology, Biology, Physics
Radiation Oncology Investigations
Journal of Clinical Oncology
Cancer
Cancer Research
Radiation Research
Archives of Otolaryngology
Gynecology and Obstetrics
Head and Neck
Journal of Skull Base Surgery
Neurosurgery
Journal of the American College of Radiology
Expert Review of Anticancer Therapy
Annals of Otolaryngology, Rhinology and Laryngology
Ad Hoc Reviewer, Technology in Cancer Research & Treatment Journal
Clinical Pharmacology and Therapeutics
Annals of Otolaryngology
Technology in Cancer Research and Treatment (Ad hoc reviewer 2006)
Practical Radiation Oncology
Clinical Cancer Research

Review Panels—Grant Reviews

- 1998 A Randomized Trial of Best Supportive Care with or without Palliative Radiotherapy in Poor Prognosis High Grade Glioma (BR09). Medical Research Council London, England.
- 1999 Pediatric Oncology Group of UOI Grant Proposal. *Ad Hoc* Review Panel.
- 1999 National Institute of Health, NINDS, PO-1 Proposal *Ad Hoc* Review Panel.
- 2001 Department of Defense—CDRMP Prostate Cancer Research Program. Panel Member on Therapeutic Intervention.
- 2002 Pediatric Oncology Group, Radiotherapy Section Review Panel, Jacksonville Florida
- 2003 National Cancer Institute. Advanced Technology QA Center for Radiation Oncology Review Panel
- 2004–2006 Angoff Meeting for CNS Tumors for ABR
- 2004–*present* National Institute of Health Loan Repayment Program Review Panel
- 2004 A Phase I Study of Stereotactic Radiosurgery for Recurrent Pediatric Brain Tumors. Pediatric Brain Tumor Consortium Trial.

2004–2008	Department of Defense - Chairman, Prostate Cancer Research Program Review Panel – Radiation Oncology.
2005–2007	Department of Defense – Breast Cancer Concept Review Panel Member
2009	National Cancer Institute Subcommittee G Education Meeting.
2009	Abstract reviewer, ASTRO’s 2009 Annual Meeting
2009	National Cancer Institute IRG Committee A <i>Ad Hoc</i> Reviewer
2009	P30 ARRA Competitive Revision Supplement Applications Review Panel
2010-2011	Abstract reviewer ASTRO’s 2010 Annual Meeting
2009-2010	P30 CCSG Grant <i>Ad Hoc</i> Reviewer
2011	Panel Review SBIR Contract Proposals for “Algorithms for Automated Quantitative Imaging of Tumor Microenvironment” and “Development of Innovative Algorithms/software for Processing and Analysis of in Vivo Images in Oncology”.

Study Section

2010	RC-4 ARRA Review
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Departmental Committees

1992–1993	Quality Assurance Committee, Department of Radiation Oncology University of Arizona
1994	Search Committee—Radiation Biologist, Department of Radiation Oncology University of Florida
1995	Search Committee—Radiation Physics Faculty, Department of Radiation Oncology University of Florida
1997–1998	Continual Quality Improvement (CQI) Committee to review faculty research procedures, Department of Radiation Oncology University of Florida
1997–1998	Search Committee—Physician Faculty, Department of Radiation Oncology University of Florida
1998–1999	Supervisor Research Office, Department of Radiation Oncology University of Florida
2000	Quality Assurance Committee, Department of Radiology, The University of Iowa
2000	Search Committee—Physicians for UIHC and Clinton, Department of Radiation Oncology, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2000	Search Committee—Program Associate, Department of Radiation Oncology, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2000–2005	Planning Committee, Center of Excellence for Image Guided Radiation Therapy, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2001– <i>present</i>	Executive Committee, Department of Radiation Oncology, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2001– <i>present</i>	Faculty Search Committee, Department of Radiation Oncology, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2001	Search Committee—Grants Administrator, Department of Radiation Oncology, University of Iowa Hospitals & Clinics, Iowa City, Iowa

- 2001 Search Committee—Image Analyst, Nurse Coordinator and Clerk for Neuro-oncology Clinical Initiative, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2003 Search Committee—APN Nursing Supervisor, Department of Radiation Oncology, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2003 Search Committee—Data Manager, Department of Radiation Oncology, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2004 Search Committee—Physics and Electrical Engineering Joint Recruitment, The University of Iowa, Iowa City, Iowa

Collegiate Committees

- 1995–1996 Research Protocol Committee, Shands Cancer Center, University of Florida
- 1996–1999 Institutional Review Board, University of Florida
- 1995–1999 Hospice of North Central Florida Liaison
- 1999–2003 Cancer Center Marketing Advisory Group, The University of Iowa, Iowa City, Iowa
- 2000–*present* Cancer Center Executive Committee, The University of Iowa, Iowa City, Iowa
- 2000–*present* Cancer Center Research Review Committee, The University of Iowa, Iowa City, Iowa
- 2000–2001 Medical Radiation Protection Committee, The University of Iowa, Iowa City, Iowa
- 2000 Hospital Radiation Safety Review Group, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2001–2005 Clinical Outcomes and Resource Management Advisory Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2001 Search Committee—Neurosurgery Chair, The University of Iowa, Iowa City, Iowa
- 2001–*present* University Hospital Advisory Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2001–*present* Senior Executive Leadership Council, The University of Iowa, Iowa City, Iowa
- 2001–*present* Medical Council/Executive Committee of Faculty Practice Plan, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2001–2007 Research Review Committee, Holden Comprehensive Cancer Center, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2001–2009 Clinical Cancer Center Advisory Subcommittee (committee discontinued), University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2001–2002 UI Healthcare Task Force to Evaluate Length of Stay: DRG 116, Cardiac Catheterization, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2002–*present* Hospital Information Management Subcommittee of Hospital Advisory Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2002–2003 Performance Value and Service Management Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2002–2003 Emergency Medicine Residency Program Planning Group Committee (advisory after 2002), University of Iowa Hospitals & Clinics, Iowa City, Iowa

- 2003–*present* University of Iowa Health Care Joint Management Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2003–2005 Co-Chair Data Safety Monitoring Board, Holden Comprehensive Cancer Center, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2003 Chair, Search Committee for Associate Dean for Clinical Affairs and Associate Hospital Director/Chief of Medical Operations, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2003 Chair Compensation Plan Committee Carver College of Medicine, The University of Iowa, Iowa City, Iowa
- 2003–2005 Vice-Chair of Management Committee Faculty Practice Plan (elected). The University of Iowa, Iowa City, Iowa
- 2003–2005 Chair, Managed Care Contracting Committee, The University of Iowa, Iowa City, Iowa
- 2004 Chair, Search Committee for Head of Pediatrics, University of Iowa Hospitals & Clinics, Iowa City, Iowa.
- 2004 *Ad Hoc* Committee of the Credentials Subcommittee – Medical Panel, University of Iowa.
- 2004–*present* Research Committee, Carver College of Medicine, The University of Iowa, Iowa City, Iowa
- 2004–*present* Medical Student Promotions Committee, Carver College of Medicine, The University of Iowa, Iowa City, Iowa
- 2004–*present* Co-Chair, UIHC Strategic Plan Task Force, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2004–2005 Co-Chair Strategic Planning Committee University of Iowa Hospitals and Clinics – Exceptional Outcomes
- 2005–2006 Search Committee Department of Dermatology Head Search, University of Iowa
- 2005 Committee Member, Carver College of Medicine Strategic Planning Committee – Clinical Services
- 2005 Sharing Agreement Advisory Committee, Carver College of Medicine, The University of Iowa, Iowa City, Iowa
- 2005 Chair, *Ad Hoc* Promotion Review Committee Emergency Medicine
- 2005–2006 Search Committee—Division Head, Hematology Oncology, Department of Internal Medicine, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2006 Review Committee, Department of Radiology, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2006 Ambulatory Care Consultant, Navigant Steering Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2006–2008 Baldrige National Quality Award Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2006 Search Committee—Chief of Payor Relations – University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 2006 Search Committee—Chief of Medical Operations, University of Iowa Physicians, University of Iowa Hospitals & Clinics, Iowa City, Iowa

2006–2007	Search Committee—Chief Financial Officer, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2006– <i>present</i>	Board Member, Iowa Medical Malpractice Insurance Company
2006– <i>present</i>	University of Iowa Physicians Executive Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2006 – 2008	Chair, University of Iowa Physicians Finance Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2007–2008	Capital Allocations Committee, University of Iowa Hospitals & Clinics and Carver College of Medicine, The University of Iowa, Iowa City, Iowa UIHC & COM
2007	Clinical Strategies and Marketing Council, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2007– <i>present</i>	Advisory Panel, Doris Duke Clinical Research Fellowship Program, The Holden Comprehensive Cancer Center, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2007	Baldrige Committee—Subcommittee on HR, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2007	Search Committee—Administrator, The Holden Comprehensive Cancer Center, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2007	Search Committee—Director Clinical-Translational Research – Holden Comprehensive Cancer Center, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2007– <i>present</i>	Internal Advisory Committee, Institute for Clinical Translational Science, The University of Iowa, Iowa City, Iowa
2007–2009	Carver College of Medicine Executive Committee, The University of Iowa, Iowa City, Iowa
2008– <i>present</i>	Holden Comprehensive Cancer Center Associate Directors Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2008	Consultant Member of the Facilities Planning and Construction Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2008–2010	Secretary, Medical Council Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2008–2010	Secretary, UIP Executive Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2008– <i>present</i>	UIP Finance Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2009	Chair, UIP Bylaws Review Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2009– <i>present</i>	Capital Budget Guidance Team for FY10, FY11, FY12 University of Iowa Hospitals & Clinics, Iowa City, Iowa
2009–2010	Co-Chair, Search Committee—Chief Quality Officer, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2009– <i>present</i>	Marketing Advisory Council, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2008– <i>present</i>	Holden Comprehensive Cancer Center Advocacy Board, University of Iowa Hospitals & Clinics, Iowa City, Iowa

2009– <i>present</i>	Committee Section on Purchasing and Operating Imaging Equipment and Infrastructure, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2009– <i>present</i>	Search Committee—Assistant Vice President of Revenue Management., University of Iowa Hospitals & Clinics, Iowa City, Iowa
2010	Beacon Maintenance Oversight Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2010	Vice Chair UIP, Faculty Practice Plan, University of Iowa
2010	Chair, Institute for Clinical and Translational Science Internal Advisory Committee, The University of Iowa, Iowa City, Iowa
2010– <i>present</i>	Vice Chair, UIP Finance Committee, University of Iowa Hospitals & Clinics, Iowa City, Iowa
2010– <i>present</i>	HCCC Biostatistics Core Advisory Committee
2010– <i>present</i>	Internal Advisory Committee – University of Iowa T-32 Surgical Training Grant
2011	Co-Chair, Iowa River Landing Advisory Committee – University of Iowa
2011– <i>present</i>	University of Iowa Health Care Referring Physician Steering Council
2011	5 Year Review Committee of Department of Otolaryngology, University of Iowa.

University Committees

1995–1999	University Libraries Committee, University of Florida, Gainesville, Florida
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National and International Committees

1995	Chair, Annual Meeting, X-Knife Consortium
1995–1999	Radiation Oncology Subcommittee Cancer Biology, Pediatric Oncology Group
1996–1999	RT Study Coordinator, POG 9432: A Phase II Study of Pre-Irradiation Chemotherapy in Newly Diagnosed Children with Intracranial Ependymoma
1997	<i>Ad Hoc</i> Committee to Develop Criteria for Quality Assurance of 3D-Conformal Radiotherapy, Pediatric Oncology Group
1997–1999	Co-Chair, Stereotactic Radiosurgery Subcommittee, Pediatric Oncology Group Brain Tumor Group
1997–1999	Brain Tumor Core Committee, Pediatric Oncology Group
1998	Study Co-Chair, Eastern Cooperative Oncology Group Trial E6397: A Phase II Trial of Radiosurgery for 1 to 3 Newly Diagnosed Metastases from Renal Cell, Melanoma and Sarcoma.
1998–2000	ASTRO Education Committee
1999–2000	Ependymoma Subcommittee, Children’s Oncology Group
1998–2001	American Board of Radiology-Recertification Board Examination Item Writer on Central Nervous System Tumors.
2000–2006	American Association of Neurosurgery Consensus Guidelines for Treatment of Malignant Gliomas

2000	International Society of Stereotactic Radiosurgery-Scientific Program Committee
2003–2006	Item writer for ACR Certification Exam, American College of Radiology
2003	Selected to Board for International Society for Stereotactic Radiosurgery (2003-2005), Japan 2003.
2003–2005	Vice President ISTRO (Iowa Society of Therapeutic Radiation Oncology)
2003–2005	International Stereotactic Radiosurgery Society Education Committee.
2003–2005	International Stereotactic Radiosurgery Society Publications Committee.
2003–2005	International Stereotactic Radiosurgery Society Newsletter Committee.
2004–2009	Member, ASTRO Research Evaluation Committee
2004– <i>present</i>	Member, ASTRO Education Committee
2005	ACR Guidelines for Performance of Stereotactic Radiosurgery
2005–2007	President, Iowa Society of Therapeutic Radiation and Oncology
2005	International RadioSurgery Association Guideline Initiative – Pituitary Adenomas
2010-2011	Chairman, QIN steering committee
2010-2011	Examiner, Oral Boards Radiation Oncology, Central Nervous System and Pediatrics
2010	5 Year Review Committee of James Larner MD, Professor and Chair of Radiation Oncology, University of Virginia.