

John M. Buatti, M.D.

I. EDUCATIONAL AND PROFESSIONAL HISTORY

Higher Education

1978-1982 BS Georgetown University (Biology/Theology)
1982-1986 MD Georgetown University

Postgraduate Medical Education

1986-1989 Internship and Residency – Internal Medicine Georgetown University
1989-1993 Residency - Radiation Oncology University of Arizona

Board Certification

American Board of Internal Medicine 9/25/91 Lic. # 126587
American Board of Radiology (Therapeutic) 6/9/94

Licensure

Florida	5/17/93	permanent	ME0064017	Expired 1/21/2000
Virginia	12/30/88	permanent	43317	Expired 10/15/90
Iowa	11/23/99	permanent	33213	Expires 2/2008

Professional and Academic Positions

A. Academic

University of Florida – Shands Cancer Center
7/1993-7/1998 Assistant Professor Department of Radiation Oncology
8/1998-9/1999 Associate Professor Department of Radiation Oncology
7/1997-9/1999 Joint Appointment: Department of Neurosurgery
10/1999-7/2001 Clinical Associate Professor Department of Neurosurgery
7/2001-present Clinical Professor Department of Neurosurgery

University of Iowa Carver College of Medicine
10/1999-6/2001 Professor Department of Radiology
7/2001-present Professor Department of Radiation Oncology
7/2004-present Secondary Appointment Department of Otolaryngology

B. Administrative

University of Iowa Carver College of Medicine
10/1999-6/2001 Professor and Vice-Chair Department of Radiology
Director, Division of Radiation Oncology
7/2001-present Professor and Head Department of Radiation Oncology

2000-present	Cancer Center Executive Committee
2001	Neurosurgery Chairman Search Committee
2001-present	Senior Executive Leadership Council
2003-present	Vice Chair Faculty Practice Plan (elected)
2003	Chair Search Committee Associate Dean For Clinical Affairs/Chief of Medical Operations – Associate Hospital Director
2003	Chair Compensation Plan Committee Carver College of Medicine
2003-present	University of Iowa Healthcare Joint Management Committee
2003-present	Chair Managed Care Contracting Committee University of Iowa
2004	Chair Search Committee Head, Department of Pediatrics
2005	Co-Chair Strategic Planning Committee University of Iowa Hospitals and Clinics – Exceptional Outcomes Sub-Committee
2005	Vice-President Iowa Society of Therapeutic Radiation and Oncology (ISTRO)
2005	Dermatology Chairman Search Committee
2005	Carver College of Medicine Strategic Planning Committee – Clinical Services

C. Honors & Awards

1992	Chief Resident Radiation Oncology, Univ. of Arizona
1992	Outstanding Oncology Fellow Award (Upjohn Company) \$1000
1992	Honorary Member Alpha Epsilon Delta, Pre-Medical Honorary (Univ. 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, Department of Neurosurgery
2003-present	Board Member International Stereotactic Radiosurgery Society
2003-present	Best Doctors in America 2003-2005

II. **TEACHING**

A. Teaching Assignments

1988-89	Lectured Bone Marrow Transplant Staff on Indications for Bone Marrow Transplantation and Common Infections and Complications of Bone Marrow Transplantation	2 hr/yr
1989	Physical Diagnosis, 2nd year Medical Students	10 hrs
1990-93	Professional Liaison for AED, Pre-Medical Honorary of the Univ. of Arizona	~10 hr/yr
1991-92	Pre-Medical Under-graduates on Careers in Academic Medicine	1 hr/yr
1992-93	Radiation Therapist School, Univ. Arizona	8 hr/yr
1992-93	Introduction to Clinical Oncology Third year medical students	25 hrs/yr
1993	Radiotherapy and its Implications for Dental Care-Dental Surgery Students	1 hrs/yr
1993-98	Radiation Biology Course for Radiation Oncology residents (UF)	15 hr/yr
1994	Radiation Oncology Department: Malignant Gliomas	1 hr
1995	Radiation Oncology Department: Stereotactic Radiosurgery	1 hr
1995	General Principles of Radiation Oncology – UF Medical Students	1 hr
1996-00	Treatment Planning for Stereotactic Radiosurgery, Surgical Navigation Technologies Training Course, December 1996, February 1997, May 1997, October 1997, August 1998, April 1999,	~12

	July 1999, August 1999, December 1999, April 2000	hrs/yr
1998	Low Grade Astrocytomas – Radiation Oncology Residents	1 hr
1998	Pituitary Adenomas - Radiation Oncology Residents	1 hr
1998	“An Overview of Cancer” for 1st Year Graduate Student Cancer Biology (IDP) Section	1 hr
1998	“Introduction to Stereotactic Radiosurgery”. Nurse training program.	1 hr
1998	“Image Guided Radiotherapy for Brain Tumors”. Resident Lecture.	1 hr
1999	“Principles of Radiation Therapy” Neurology Resident Teaching Conference	1 hr
1999	UI Radiology Medical Student Short Clerkship 74:006	6 hrs
1999	UI Radiation Oncology Case Conference	3 hr/wk
2000	UI Radiation Oncology Lectures to Staff on Stereotactic Radiotherapy Technique	4 hr/yr
2000	UI Foundations of Clinical Practice II	2hr/wk/ semester
2000-02	UI Radiology Medical Student Short Clerkship 74:006	~10 hr/yr
2001	UI Foundations of Clinical Practice III	2 hrs/wk 1 semester
2001	UI Clinician Mentor Program	2 hrs/wk 1 semester
2001	UI Radiation Therapist Program	12 hrs/yr
2001-present	Molecular and Cell Biology of Cancer (77:288)	3 hour/yr
2001-present	Resident Lecture Series	~8 hours/yr
2002-present	Faculty Member Boulware Community, Carver College of Medicine	
2003-present	Clinical and Professional Reflections Program, Carver College of Medicine	
~9 hours/yr		
2003-present	Neurosurgery Resident Review in Radiation Oncology	2 hours/yr
2005	UI Foundations in Clinical Practice II	2 hours/wk 1 semester

Clinical Teaching (in ward, clinic, or operating room)

1993-96	Shands Cancer Center (UF)	48 wk/yr	6 hr/wk
1996-99	Shands Cancer Center (UF)	48 wk/yr	20 hr/wk
1999-2003	Outpatient Clinic UIHC		30 hr/wk
2004-present	Outpatient Clinic UIHC		20 hr/wk

Graduate students supervised

1998-2000 Ph.D. Supervisory Committee, Thomas Wagner; in Nuclear and Radiologic Engineering on “Optimal delivery techniques for intracranial stereotactic radiosurgery and radiotherapy using circular and multileaf collimators” (University of Florida), defense 7/16/00. PhD awarded

1997-1999 Post-Doctoral Research Consultation – Lionel Bouchet, PhD University of Florida Outcome: several publications and faculty position at the University of Florida following post-doctoral research.

2002-2004 Ph.D. Supervisory Committee – Rugio Liu, PhD candidate MS Department of Electrical and Computer Engineering, University of Iowa.

2003-2004 Doris Duke Fellow – Amanda Mealer, Medical Student Project on MnSOD and Malignant Glioma

2004-2005 Doris Duke Fellow – Laurent Grignon, Medical Student Project on Clinical Stereotactic Guided Therapy

Radiation Oncology and Neurosurgery Resident Research Supervision

- 1995 Kellie Condra; Primary treatment for intracranial meningioma. (Received UF Resident “Talk’in Award –best paper UF Clinical Resrach Conference).paper published
 - 1996 Mark McCord; Pituitary adenomas: Outcome and late sequelae (Received UF Resident “Talk’in Award–best paper UF Clinical Resrach Conference). Paper published
 - 1997 Thomas Ellis; A database for stereotactic radiosurgery.(assisted with WA Friedman). Paper published
 - 1997 Dwelvyn Simmons; Gangliogliomas.
 - 1998 David Marshall; A Monte-Carlo based model for *in vivo* dosimetry. Is the dose what we think? (Received UF Resident “Talk’in Award–best paper UF Clinical Resrach Conference)
 - 1999 Shelaine Mabanta; Stereotactic radiotherapy for intracranial germinomas. (Received UF Resident “Talk’in Award 1999–best paper UF Clinical Resrach Conference).paper published.
 - 1998 Shelaine Mabanta; Radiosurgery for intracranial metastases.paper published
 - 2000 Shelaine Mabanta; Linac radiosurgery for non-acoustic schwannoma.paper published.
 - 1998-99 Kelly Foote; Cranial nerve complication analysis for vestibular schwannoma. (Assisted with WA Friedman. Received Congress of Neurosurgery Award for best resident paper 1999). Paper published.
- 2002-03 Reena Kamath; Frameless Radiosurgery for Intracranial Metastases.
- 2003-04 Terese Howes, Clinical Fellow; Stereotactic Positioning in Clinical Applications.
- 2003-04 Heather Kaiser: Extracranial Stereotactic Radiosurgery of Liver Tumors.

National and International Teaching Programs

- 1996 Course Co-director Linac Radiosurgery December 1996,Orlando, FL
- 1997 Course Co-director Linac Radiosurgery December 1997,Orlando, FL
- 1997 Meeting Coordinator-Spring Research Seminar, Orlando, FL
February 1997. Department of Radiation Oncology, University of Florida
- 1998 Course Co-director Linac Radiosurgery December 1998, Orlando, FL
- 1998 Meeting Coordinator, Spring Research Seminar, Gainesville, FL
March 1998. Department of Radiation Oncology, University of Florida
- 1999 Course Co-director Linac Radiosurgery December 1999, Orlando, FL
- 1999 Meeting Coordinator, Spring Research Seminar, Gainesville, FL
1999. Department of Radiation Oncology, University of Florida.
- 2000 Course Co-director Linac Radiosurgery, December 2000, Orlando, FL
- 2001 Radiosurgery Training Course – Z-Med, March 2001
- 2001 Scientific Program Committee –International of Stereotactic Radiosurgery Society, Las Vegas, Nevada June 2001

- 2001 Director Radiosurgery Practical Course - International Society of Stereotactic Radiosurgery, Las Vegas Nevada June 2001
- 2001 Course Co-director Linac Radiosurgery, December 2001, Orlando, FL
- 2002 Course Co-director Linac Radiosurgery, December 2002, Orlando, FL
- 2003 Course Co-director Linac Radiosurgery, December 2003, Orlando, FL
- 2003 Course Director Annual Meeting ISTRO (Iowa Society of Therapeutic Radiation Oncology)
- 2004 Course Co-director Linac Radiosurgery, December 2004, Orlando, FL

Course Materials (syllabi, instructional web pages, computer lab materials) see appendix

Syllabus for radiobiology course for residents (a programmed text of radiobiology).

Syllabus 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.

Univ. of Iowa Health Care Stereotactic Radiosurgery / Department of Radiation Oncology
Web Page web page <http://www.radiology.uiowa.edu/RadOnc/>

Other Teaching Activities

- 2000-present Medical Advisor, UIHC Radiation Therapist Training Program
- 2000-present Co-Director, ISTRO (Iowa Society of Therapeutic Radiology & Oncology) Conference, Iowa City, Iowa.
- 2001-present Participant In Medical Student Community University of Iowa
- 2001 Lecturer: Surgical Update for Nurses – Department of Nursing University of Iowa
- 2002 Lecturer: Scofield Advanced Oncology Nursing Conference – “*Stereotactic Radiosurgery*”. Coralville, Iowa
- 2002-present Lecturer: Iowa Basic Science Course in Otolaryngology-Head and Neck Surgery. “*Radiation Therapy of the Head and Neck/Complications of Head and Neck Radiotherapy.*”
- 2002 Lecturer: “*A Day in the Life Series*”, Carver College of Medicine to first and second year Medical Students in Academic Radiation Oncology.

III. SCHOLARSHIP

Peer reviewed publications

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 23(3):533-537, 1992.
2. **Buatti JM**, Rivero LR, Jorgensen TJ. Radiation-induced DNA single-strand breaks in freshly isolated human leukocytes. Radiat Res 132(2):200-206, 1992.
3. Stea B, **Buatti JM**, Stringer DE, Gerner EW. Inhibition of polyamine synthesis suppresses growth and x-ray-induced bubblethal and potentially lethal damage recovery in human tumor cells in culture. Radiat Oncol Invest 1:41-49, 1993.
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 Onc 17(5):444-447, 1994.

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 32(1):205-210, 1995.
6. **Buatti JM**, Friedman WA, Bova FJ, Mendenhall WM. Linac radiosurgery for locally recurrent nasopharyngeal carcinoma rationale and technique. Head Neck 17:14-19, 1995.
7. **Buatti JM**, Friedman WA, Bova FJ, Mendenhall WM. Treatment selection factors for stereotactic radiosurgery of intracranial metastases. Int J Radiat Oncol Biol Phys 32(4):1161-1166, 1995.
8. Sarkaria JN, Mehta MP, Loeffler JS, **Buatti JM**, Chappell RJ, et al. Radiosurgery in the initial management of malignant gliomas: Survival comparison with the RTOG recursive partitioning analysis. Int J Radiat Oncol Biol Phys 32(4):931-941, 1995.
9. Mendenhall WM, Parsons JT, **Buatti JM**, Stringer SP, Million RR, Cassisi NJ. Advances in radiotherapy for head and neck cancer. Semin Surg Oncol 11(3):256-264, 1995.
10. **Buatti JM**, Friedman WA, Theele DP, Bova FJ, Mendenhall WM. The Lazaroid U74389G protects normal brain from stereotactic radiosurgery induced radiation injury. Int J Radiat Oncol Biol Phys 34(3):591-597, 1996.
11. **Buatti JM**, Marcus RB, Mendenhall WM, Friedman WA, Bova FJ. Accelerated hyperfractionated radiotherapy for malignant glioma. Int J Radiat Oncol Biol Phys 34(4):785-792, 1996.
12. Auchter RM, Lamond JP, Alexander E, **Buatti JM**, Chappell RJ, Friedman W, et al. A multi-institutional outcome and prognostic factor analysis of radiosurgery for resectable single brain metastasis. Recipient Resident Essay Award. Int J Radiat Oncol Biol Phys 35(1):27-35, 1996.
13. **Buatti JM**, Mendenhall WM, Friedman WA, Bova FJ. Editorial in response to: Stereotactic radiosurgery for recurrent cranial base cancer arising from the head and neck. Head Neck 18:166, 1996.
14. Friedman WA, Blatt DA, Bova FJ, **Buatti JM**, Mendenhall WM, Kubilis P. The risk of hemorrhage after radiosurgery for arteriovenous malformations. J Neurosurg 84(6):912-919, 1996.
15. Parsons JT, Mendenhall WM, **Buatti JM**, Stringer SP, Million RR, Cassisi NJ. Advances in radiotherapy for head and neck cancer. 4th Int'l Conf on Head and Neck Ca. Society of Head and Neck Surgeons and American Society of Head and Neck Surgery, Pittsburgh, PA, pp. 224-230, 1996.
16. Mendenhall WM, Friedman WA, **Buatti JM**, Bova FJ. Preliminary results of linear accelerator radiosurgery for acoustic schwannomas. J Neurosurg 85(6):1013-1019, 1996.
17. Mendenhall WM, Friedman WA, Parsons JT, **Buatti JM**. Radiation therapy and stereotactic radiosurgery for temporal bone tumors. Oper Tech Otolaryngol Head Neck Surg 7(2):208-218, 1996.
18. 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 38(4):875-882, 1997.
19. Condra KS, **Buatti JM**, Mendenhall WM, Friedman WA, Marcus RB, Rhoton AL. Benign meningiomas: primary treatment selection affects survival. Int J Radiat Oncol Biol Phys 39(2):427-436, 1997.

20. McCord MW, **Buatti JM**, Fennell EM, Mendenhall WM, Marcus Jr RB, Grant MB, Rhoton AL, Friedman WA. Radiotherapy for pituitary adenoma: long-term outcome and sequelae. Int J Radiat Oncol Biol Phys 39(2):437-444, 1997.
21. **Buatti JM**, Marcus RB. Pituitary adenomas current methods of diagnosis and treatment. Oncology (Huntingt). 11(6):791-796, 1997; discussion 798, 803-804 Review.
22. Salzman KL, Rojiani AM, **Buatti J**, Quisling RG, Marcus Jr RB, Maria BL, Mickle JP, Kedar A. Primary intracranial germ cell tumors: clinicopathologic review of 32 cases. Pediatr Path Lab Med 17(5):713-727, 1997.
23. **Buatti JM**, Meeks SL, Marcus Jr RB, Mendenhall NP. Radiation treatment for pediatric brain tumors. Semin Pediatr Neurol 4(4):304-319, 1997.
24. **Buatti JM**, Mendenhall WM, Parsons JT, Meeks SL. Letter to the Editor. Re: Stereotactic radiotherapy for choroidal melanoma by Tokuyue et al. Radiother Oncol 45:99, 1997.
25. McLaughlin MP, Marcus RB, **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 40(4):845-850, 1998.
26. Meeks SL, **Buatti JM**, Mendenhall WM, Friedman WA, Bova FJ, Zlotecki RA. Potential clinical efficacy of intensity-modulated conformal therapy. Int J Radiat Oncol Biol Phys 40(2): 483-495, 1998.
27. 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 41(2):433-439, 1998.
28. del Charco JO, Bolek TW, McCollough WM, Maria BL, Kedar A, Braylan RC, Mickle JP, **Buatti JM**, Mendenhall NP, Marcus RB. Medulloblastoma: time-dose relationship based on a 30-year review. Int J Radiat Oncol Biol Phys 42(1):147-154, 1998.
29. Meeks SL, **Buatti JM**, Bova FJ, Friedman WA, Mendenhall WM. Treatment planning optimization for linear accelerator radiosurgery. Int J Radiat Oncol Biol Phys 41(1):183-197, 1998.
30. McLaughlin MP, **Buatti JM**, Marcus Jr RB, Maria BL, Mickle PJ, Kedar A. Outcome after radiotherapy of primary spinal cord glial tumors. Radiat Oncol Investig 6(6):276-280, 1998.
31. Ellis TL, Friedman WA, Bova FJ, Kubilis P, **Buatti JM**. Analysis of treatment failure after radiosurgery for arteriovenous malformations. J Neurosurg 89(1):104-110, 1998.
32. **Buatti JM**, Bova FJ, Friedman WA, Meeks SL, Marcus Jr RB, Mickle JP, Ellis TL, Mendenhall WM. Preliminary experience with frameless stereotactic radiotherapy. Int J Radiat Oncol Biol Phys 42(3):591-599, 1998.
33. Meeks SL, Bova JF, Friedman WA, **Buatti JM**, Mendenhall WM. Linac scalpel at the University of Florida. Med Dosim 23(3):177-185, 1998.
34. **Buatti JM**, Friedman WA, Meeks SL, Bova FJ. The radiobiology of radiosurgery and stereotactic radiotherapy. Med Dosim 23(3):201-207, 1998.
35. Bova JF, Meeks SL, Friedman WA, **Buatti JM**. Optic-guided stereotactic radiotherapy. Med Dosim 23(3):221-228, 1998.

36. Meeks SL, Bova JF, Maryanski MJ, Kendrick LA, Ranade MK, **Buatti JM**, Friedman WA. Image registration of BANG gel dose maps for quantitative dosimetry evaluation. Int J Radiat Oncol Biol Phys 43(5):1135-1141, 1999.
37. Meeks SL, Bova JF, Kim S, Tome WA, **Buatti JM**, Friedman WA. Dosimetric Characteristics of a double focused miniature multileaf collimator. Med Phys 26(5):729-33, 1999.
38. Corn BW, Mehta MP, **Buatti JM**, Wolfson AH, Greven KM, Kim RY, Dunton CJ, Loeffler JS. Stereotactic irradiation: potential new modality in the management of brain metastases from ovarian cancer. Am J Clin Oncol 22(2):143-146, 1999.
39. Shafron DH, Friedman WA, **Buatti JM**, Bova JF, Mendenhall WM. Linac radiosurgery for benign meningiomas. Int J Radiat Oncol Biol Phys 43(2):321-327, 1999.
40. Mabanta SR, **Buatti JM**, Friedman WA, Meeks SL, Mendenhall WM, Bova FJ. Linear accelerator radiosurgery for nonacoustic schwannomas. Int J Radiat Oncol Biol Phys 43(3):545-548, 1999.
41. Foote KD, Friedman WA, **Buatti JM**, Bova JF, Meeks SL. Linear accelerator radiosurgery in brain tumor management. Neurosurg Clin N Am, 10(2):203-242, 1999.
42. Meeks SL, Williams RO, Bova FJ, Mendenhall WM, **Buatti JM**. The midline dose distribution for a three-field radiotherapy technique. Med Dosim 24(2):91-98, 1999.
43. Meeks SL, Bova JF, **Buatti JM**, Friedman WA, Eyster B, Kendrick LA. Analytic characterization of linear accelerator radiosurgery dose distributions for fast optimizations. Phys Med Biol 44(11):2777-27-87, 1999.
44. Mabanta SR, **Buatti JM**, Meeks SL, Friedman WA, Bova FJ. Stereotactic radiotherapy integrated with conventional radiotherapy for intracranial germinomas. Radiosurg 3:257-261, 2000.
45. **Buatti JM**, Friedman WA, Theele DP, Bova JF, Mendenhall WM. Radioprotection of normal brain tissue by the Lazaroid U74389G is not improved by dose escalation. Radiosurg 3:153-160, 2000.
46. Meeks SL, Bova JF, **Buatti JM**, Friedman WA, Kim S. Clinical dosimetry considerations for a double-focused miniature multileaf collimator. Radiosurg 3:83-90, 2000.
47. **Buatti JM**, Friedman WA, Meeks SL, Bova FJ. RTOG 90-05: The real conclusion (Editorial). Int J Radiat Oncol Biol Phys. 47(2):269-271, 2000
48. 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 47(3):597-602, 2000.
49. Meeks SL, Bova JF, TH, **Buatti JM**, Friedman WA, Foote KD, Wichman B. Image localization for frameless stereotactic radiotherapy. Int J Radiat Oncol Biol Phys 46(5):1291-1299, 2000.
50. Meeks SL, Bova JF, Maryanski MJ, Kendrick LA, Ranade MK, **Buatti JM**, Friedman WA. Quantitative verification of dose distributions for linac radiosurgery and fractionated stereotactic radiotherapy. Radiosurgery 3:13-22, 2000.
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 47:1137-1143, 2000.

52. Mayr NA, Taoka T, Yuh WTC, 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. [Letter]. Int J Radiat Oncol Biol Phys 48(3):910-912, 2000.
53. 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 treatment planning. Int J Radiat Oncol Biol Phys 48(5):1599-1611, 2000.
54. Mayr NA, Yuh WTC, Arnholt JC, Ehrhardt JC, Sorosky JI, Magnotta VA, Berbaum KS, Zhen WK, 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, 12(6):1027-1033, 2000.
55. **Buatti JM**, Meeks SL, Friedman WA, Bova FJ. Stereotactic radiosurgery: techniques and clinical applications. Surg Oncol Clin N Am. 9(3):469-487, 2000.
56. Foote KD, Friedman WA, **Buatti JM**, Bova FJ. Radiosurgical techniques for pituitary adenomas. Techniques in Neurosurgery. 6:289-298. 2000.
57. Meeks SL, Bova FJ, Friedman WA, **Buatti JM**. Therapeutic, hardware, and software limitations of fractionated stereotactic radiotherapy. Automedica 00: 1-27, 2001. (International Journal of Biomedical Engineering & Physics, Informatics and Technology). Gordon and Breach Publishing.
58. Mayr NA, Yuh WTC, Oberley LW, Spitz D, Sorosky JI, **Buatti JM**. Serial changes in tumor oxygenation during the early phase of radiation therapy in cervical cancer-are we quantitating hypoxia change? Regarding Lyng et al., [Letter, IJROBP 46:935-946, 2000] Int J Radiat Oncol Biol Phys 49(1): 282-289, 2001.
59. Foote KD, Friedman WA, **Buatti JM**, Meeks SL,, Bova FJ, Kubilis PS. Analysis of risk factors associated with radiosurgery for vestibular schwannoma. J Neurosurg, 95(3):440-449, 2001.
60. Sanghavi SN, Miranpuri SS, Chappell R, **Buatti JM**, Sneed PK, Suh JH, Regine WF, Weltman E, King VJ, Goetsch SJ, Breneman JC, Sperduto PW, Scott C, Mabanta SR, Mehta MP. Radiosurgery for patients with brain metastases: a multi-institutional analysis, stratified by the RTOG recursive partitioning analysis method. Int J Radiat Oncol Biol Phys, 51(2):426-434,2001.
61. Bouchet LG, Meeks SL, Goodchild G, Bova FJ, **Buatti JM**, Friedman WA. Calibration of three-dimensional ultrasound images for image-guided radiation therapy. Phys Med Biol., 46(2):559-577, 2001.
62. Wagner TH, Meeks SL, Bova FJ, Friedman WA, **Buatti JM**, Bouchet LG. Isotropic beam bouquets for shaped beam linear accelerator radiosurgery. Phys. Med. Biol. 46(10):2571-2586, 2001.
63. Simon JH, Zhen W, McCulloch TM, Hoffman HT, Paulino AC, Mayr NA, **Buatti JM**. Esthesioneuroblastoma: the University of Iowa experience 1978 – 1998. Laryngoscope. 111(3):488-493, 2001.
64. Paulino AC, **Buatti JM**. Adjuvant chemotherapy for ependymoma : is it necessary for all children under five years of age ? Regarding Grill et al. [Letter] J. Clin Oncol. 19(15):3588-3589, 2001.
65. Lester NV, Hopkins AL, Bova FJ, Friedman WA, **Buatti JM**, Meeks SL, Chrisman CL. Radiosurgery using a stereotactic headframe system for irradiation of brain tumors in three dogs. J Amer Vet Med Assoc. 219(11):1562-1567, 2001.

66. Tome WA, Meeks SL, McNutt TR, **Buatti JM**, Bova FJ, Friedman WA, Mehta MP. Optically guided intensity modulated radiotherapy. Radiother. Oncol. 61(1):33-44, 2001
67. Ryken TC, Meeks SL, Pennington EC, Hitchon PW, Traynelis V, Mayr NA, Bova FJ, Friedman WA, **Buatti JM**. Initial clinical experience with frameless stereotactic radiosurgery: analysis of accuracy and feasibility. Int J Radiat Oncol Biol Phys. 51(4):1152-1158, 2001.
68. Ryken TC, Meeks SL, Traynelis V, Haller J, Bouchet LG, Bova FJ, Pennington EC, **Buatti JM**. Ultrasonic guidance for spinal extracranial stereotactic radiosurgery: Technique and application for metastatic spinal lesions. Neurosurg Focus 11(6):1-6, 2001.
69. Lee CK, de Magalhaes-Silverman M, Hohl RJ, Hayashi M, **Buatti JM**, Wen BC, Schlueter A, Strauss RG, Gingrich RD. Prophylactic T cell infusion after T cell-depleted bone marrow transplantation in patients with refractory lymphoma. Bone Marrow Transplant. 29(7):615-620, 2002.
70. Mayr NA, Taoka T, Yuh WTC, Denning LM, Zhen WK, Paulino AC, Gaston RC, Sorosky JI, Meeks SL, Walker JL, Mannel RS, **Buatti JM**. Method and timing of tumor volume measurement for outcome prediction in cervical cancer using magnetic resonance imaging. Int J Radiat Oncol Biol Phys. 52(1):14-22, 2002.
71. Meeks SL, Ryken TC, Pennington EC, Bova FJ, Friedman WA, **Buatti JM**. Testing and initial experience with an image-guided system for frameless stereotactic radiosurgery. Radiosurg. 4:251-261, 2002.
72. Bouchet LG, Meeks SL, Bova FJ, **Buatti JM**, Friedman WA. 3D ultrasound image guidance for high precision extracranial radiosurgery and radiotherapy. Radiosurg. 4:262-278, 2002.
73. Simon JH, Paulino AC, Smith RB, **Buatti JM**. Prognostic factors in head and neck rhabdomyosarcoma. Head Neck. 24(5):468-473, 2002.
74. Paulino AC, Mayr NA, Simon JH, **Buatti JM**. Locoregional control in infants with neuroblastoma: role of radiation therapy and late toxicity. Int J Radiat Oncol Biol Phys. 52(4):1025-1031, 2002
75. Sneed PK, Suh JH, Goetsch SJ, Sanghavi SN, Chappell R, **Buatti JM**, Regine WF, Weltman E, King VJ, Breneman JC, Sperduto PW, Mehta MP. A multi-institutional review of radiosurgery alone vs. radiosurgery with whole brain radiotherapy as the initial management of brain metastases. Int J Radiat Oncol Biol Phys. 53(3):519-526 2002.
76. **Buatti JM**, Meeks SL, Ryken TC, Carlisle TL. Low-grade gliomas: answering one question in a myriad of new questions. J Clin Oncol, 20(9):2223-2224, 2002.
77. Tome WA, Mehta MP, Meeks SL, **Buatti JM**. Fractionated stereotactic radiotherapy: a short review. Technol Cancer Res Treat. 1(3):153-172, 2002.
78. Meeks SL, Paulino AC, Pennington EC, Simon JH, Skwarchuk MW, **Buatti JM**. In vivo determination of extra-target doses received from serial tomotherapy. Radiother Oncol, 63(2):217-222, 2002.
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77. Bouchet LG, Meeks SL, Bova FJ, **Buatti JM**, Friedman WA. Three-dimensional ultrasound guided patient positioning based on 2D ultrasound imaging. Med Phys. 28(6):1219, 2001.
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83. Ryken TC, Meeks SL, Haller JW, Bouchet L, **Buatti, JM**. "Ultrasound Guidance for Spinal Radiosurgery" Poster presented at Computer Assisted Radiology & Surgery (CARS) 16th International Congress & Exhibition. Paris, France June 2002.
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86. El-Deiry MW, Funk GF, Nalwa S, Karnell LH, Smith RB, **Buatti JM**, Hoffman HT, Clamon GH, Graham SM, Trask DK, Dornfeld K, Yao M. Long-term, health-related quality of life outcomes following surgical versus non-surgical management for advanced-stage head and neck cancer. Presented by El-Deiry MW at the Combined Otolaryngology Spring Meetings, 2003;Atlanta, GA.
87. Mealer A, Ryken T, **Buatti JM**, Oberley L. A Retrospective Comparison of Clinical Outcome with Glioblastoma Superoxide Dismutase and Nitric Oxide Synthase Expression and Activity. Submitted 11th Annual Meeting of the Society for Free Radical Biology and Medicine, St. Thomas, Virgin Islands, November 2004.
88. Nathan TR, Dahle CE, Modrick JM, **Buatti JM**, Weiner GJ. Brachtherapy Combined with CpG ODN Enhances Development of a Tumor Antigen-Specific CD8 Response. American Society Hematology. Submitted 2004. International Society for Biological Therapy of Cancer. Presented November 2004
89. Yao M, Nguyen T, Dornfeld K, Skwarchuk M, Wacha J, Meeks SL, Buatti J. SIB-SEG IMRT for head and neck cancer: Preliminary results focusing on target volume definition and dose prescription. Radiologic Society of North America scientific assembly and annual meeting program. Oak Brook IL. P. 454, 2004.

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, Niranjan 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.

Articles Submitted-pending decision

1. El-Deiry MW, Funk GF, Karnell LHK, Nalwa S, Smith RB, **Buatti JM**, Hoffman HT, Clamon GH, Graham, SM, Trask DK, Dornfeld KJ, Yao M. Long-term health-related quality of life outcomes following surgical versus non-surgical management for advanced stage head and neck cancer. Arch Otolaryngol – Head Neck Surg. Submitted 2004.
20. Howes TL, **Buatti JM**, Kirby PA, Carlisle TL, Ryken TC. Radiation induced adult medulloblastoma: A case report. J Neuro Oncol. Submitted 2004.
20. Yao M, Dornfeld KJ, Nguyen T, Skwarchuk M, Wacha J, Meeks SL, Graham MM, **Buatti JM**. SIB-SEQ IMRT for head and neck cancer – preliminary results focusing on target volume delineation and dose prescription. Int J Radiat Oncol Biol Phys. Submitted 2004.
20. Kaiser HS, Paulino AC, **Buatti JM**. Radiotherapy simulations for children with a renal mass. J Peds. Submitted 2004.
20. Yao, M, **Buatti JM**, Anderson K, Funk G, Nguyen T, Pennington E, Nerad J. Optically guided stereotactic radiotherapy for lacrimal sac tumors. Head and Neck Cancer. Submitted 2004.
20. Howes TL, **Buatti JM**, Hass AC, Chesnut D, Sonka M, Meek SL. Comparison of Experienced and Inexperienced Radiation Therapist Users of Three Dimensional Ultrasound for Localization of the Prostate Gland: Working the Kinks Out. Int J Radiat Oncol Biol Phys. Submitted 2004.

Areas of Research Interest and Current Projects

Areas of Research Interest

1. Central nervous system tumors.
2. Stereotactic radiotherapy
3. Extracranial stereotaxis
4. Head and Neck cancer

Institutional Review Board Approved Trials

1. Accelerated Hyperfractionation and Radiosurgical Boost for Malignant Gliomas

- PI: JM Buatti (University of Florida) 1994-1998
Investigator Initiated
2. Test of a High Precision Radiation Therapy Positioning System
PI: JM Buatti (University of Florida) 1994-1999
Investigator Initiated
 3. Frameless High-Precision Stereotactic Radiotherapy for the Treatment of Acoustic Scwannomma; Meningioma; Low Grade Chondrosarcoma; Cordoma; Nasopharyngeal Carcinoma; Other previously irradiated brain tumors; other intracranial tumors.
PI: JM Buatti (University of Florida) 1994-1999
Investigator Initiated
 4. Frameless High-Precision Stereotactic Radiotherapy for Pediatric Central Nervous System Tumors
PI: JM Buatti (University of Florida) 1994-2000
Investigator Initiated
 5. RSA Image Fusion Software for stereotactic radiosurgery and stereotactic radiotherapy treatment planning.
PI: JM Buatti (University of Florida) 1994-1996
Industry Sponsored
 6. Longitudinal Open-Label, Multi-Center Clinical Trial of Gliadel for patients with malignant Glioma.
PI: JM Buatti (University of Florida) 1996-1998
Industry Sponsored
 7. Double Blind Randomized Trial of the Anti-Progestational Agent Mifepristone in the Treatment of Unresectable Meningioma, Phase III. (Eastern Cooperative Oncology Group)
PI: JM Buatti (University of Florida)1997-1998
Cooperative Group: ECOG
 8. A phase I study of vaccination with irradiated autologous cancer cells genetically engineered to express B7-2 T-cell costimulatory molecule and granulocyte-macrophage colony stimulating factor in patients with recurrent glioblastoma and refractory malignant melanoma
PI: JM Buatti (University of Florida) 1997-1998
Investigator Initiated – Co-Investigator Lung-Ji Chang, PhD research idea and tests
 9. A Randomized Trial of Carbogen Breathing During Accelerated Hyperfractionated Radiotherapy for Head and Neck Cancer
PI: JM Buatti (University of Florida)1996-1999 (transfer to W, Mendenhall, MD)
Investigator Initiated – Co-investigator D. Siemann, W. Mendenhall
 10. Neuropsychologic Sequelae of Brain Tumor Therapy
PI:JM Buatti (University of Florida)1998-2000
Investigator Initiated
 11. Stereotactic radiosurgery versus medical management alone for patients with hemorrhagic cerebral cavernous malformations: A phase III multi-center, prospective randomized trial.
PI :JM Buatti (University of Florida)1998-1999
Investigator Initiated – D. Kondziolka University of Pittsburgh
 12. A phase III, multi-center, randomized, double-blind, placebo-controlled trial of prolifeprasan

20 with carmustine 3.85% implant in patients undergoing initial surgery for newly-diagnosed malignant glioma.

PI: JM Buatti (University of Florida)1998-2000
Industry Sponsored

13. A Micro-Multileaf collimator for irradiation of central nervous system tumors

PI: JM Buatti (University of Florida)1998-2000 (transfer to William Friedman)
Investigator Initiated

14. A phase II trial of radiosurgery for 1-3 newly diagnosed brain metastases from renal cell melanoma and sarcoma.

PI: JM Buatti (University of Florida)1998-2000
Cooperative Group: ECOG

15. 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

PI: JM Buatti (University of Iowa) 2000
Investigator Initiated – J. Lattanzi, New Jersey/NCI funded trial

16. 89808:5-FU/Mitomycin-C/RT v 5-FU/Cis/RT-Anal Cancer

PI: Gerald Clamon (University of Iowa) 2000
Co-investigator: JM Buatti

17. Three-dimensional ultrasound guidance for extracranial radiotherapy

PI: JM Buatti (University of Iowa) 2001
Investigator Initiated

18. 500002/S0008:HiDose IFN vs Cisplat/Vinbl/IL-2/IFN

PI: Gerald Clamon (University of Iowa) 2001
Co-investigator: JM Buatti

19. Development of Radiation Fibrosis in Patients Treated with Pentoxifylline and Vitamin E: A Prospective Randomized Study.

PI: GM Jacobson (University of Iowa) 2003
Co-investigator: JM Buatti

20. A Phase 1 Study of Fractionated Radiation Therapy Combined with Two-Deoxyglucose for Treatment of Squamous Cell Carcinoma of the Head and Neck

PI: KD Dornfeld (University of Iowa) 2003
Co-investigator: JM Buatti

21. A Phase III Randomized, Multicenter Trial Comparin...

PI: Margarida Magalhaes-Silverman (University of Iowa) 2003
Co-investigator: JM Buatti

22. Pilot study to evaluate esomeprazole (Nexium) in t....

PI: Douglas Trask (University of Iowa) 2003
Co-investigator: JM Buatti

23. 80101:Ph III Adj Chemo after res of Gastric Adeno

PI: Gerald Clamon (University of Iowa) 2003
Co-investigator: JM Buatti

24. " PET Imaging in the Management of Head and Neck Can..."

PI: Russell Smith (University of Iowa) 2003

25. "PCI RTOG 0214"
PI: Min Yao (University of Iowa) 2004
Co-investigator: JM Buatti
26. "XRT with embolization for AVM"
PI: Laurent Grignon, M4 (University of Iowa) 2004
Co-investigator: JM Buatti
27. "TP-38"
PI: Timothy Ryken (University of Iowa) 2004
Co-investigator: JM Buatti
28. "Temodar"
PI: Timothy Ryken (University of Iowa) 2004
Co-investigator: JM Buatti
29. "TransMID"
PI: Timothy Ryken (University of Iowa) 2004
Co-investigator: JM Buatti
30. "30206: Induction/consolidation chemo/XRT in LSCLC"
PI: Gerald Clamon (University of Iowa) 2004
Co-investigator: JM Buatti
31. "A phase I Clinical Trial: 2DG + Stereotactic Radiosurgery (SRS) Protocol for Treatment of Intracranial Metastases"
PI: KD Dornfeld (University of Iowa) 2005
Co-investigator: JM Buatti
33. "Reflexology in head and neck cancer"
PI: Nicole Nisly (University of Iowa) 2005
Co-investigator: JM Buatti
34. "DCVax"
PI: Timothy Ryken (University of Iowa) 2005
Co-investigator: JM Buatti
35. "ACNS0423"
PI: Raymond Tannous (University of Iowa) 2005
Co-investigator: JM Buatti
36. "30407:XRT, pemetrexed & carbo with or without cetuximab"
PI: Gerald Clamon (University of Iowa) 2005
Co-investigator: JM Buatti
37. "30501:Induction chemoRT, surgery, followed by doce"
PI: Gerald Clamon (University of Iowa) 2005
Co-investigator: JM Buatti
38. "RTOG 01212"
PI: Min Yao (University of Iowa) 2005
Co-investigator: JM Buatti
39. "AALL0331"

PI: John M. Buatti, M.D. % of Effort: 50%

Title: RSNA Medical Student/Scholar Assistant Program
Source: Radiological Society of North America
Direct Funds:\$5,000 Period of Funding: 1994
PI: John M. Buatti, M.D. for Jeff Hunter % of Effort: 5%

Title: Bryan W. Robinson Neurological Foundation Award
Direct Funds:\$2500 Period of Funding: 1994 (1 yr)
PI: Jeff Hunter (student under John Buatti, M.D.) % of Effort: <5%

Title: Stereotactic Injection of Herpes Simplex Thymidine Kinase Vector Producer Cells (PA317G1Tk1SvNa.7) and Intravenous Ganciclovir for the Treatment of Recurrent Malignant Glioma
Source: Genetic Therapy Incorporated
Direct Funds:~\$25,000/patient contract Period of Funding: 1995
PI: Bernard Maria % of Effort: 5%

Title: Stereotactic Radiosurgery Radioprotection by the Lazaroid U74389G in a Cat Model
Source: Upjohn
Direct Funds:\$8000 Period of Funding: 1995
PI: John M. Buatti, M.D. % of Effort: 5%

Title: *A Practical Guide to Stereotactic Radiosurgery*
Source: Springer-Verlag
Direct Funds:\$2500 (1996)
Intent: Grant for artwork for text.

Title: A Randomized Trial of Carbogen Breathing During Accelerated Hyperfractionated Radiotherapy for Head and Neck Cancer
Source: University of Florida Medical Guild
Direct Funds:\$500 (1998)
PI: John M. Buatti, M.D. % of Effort: <5%

Title: Radiation Induced Gene Therapy for Malignant Gliomas
Source: Univ. of Florida College Incentive Fund/Research Development Award
Direct Funds:\$27,000 Period of Funding: 1997
PI: John M. Buatti, M.D. % of Effort: 10%

Title: 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
Source: Rhone-PoulencRorer (contract, RPR)
Direct Funds:~\$8000/patient contract Period of Funding: 1996
PI: John M. Buatti, M.D. % of Effort: <5%

Title: Improved Patient Localization for External Beam Radiotherapy
 Source: Whitaker Foundation
 Direct Funds:\$183,169
 PI: Sanford L. Meeks, PhD
 Period of Funding: 1999-2003
 % of Effort: 5%

Title: Ultrasound guided optical stereotactic navigational system
 Source: NIH -NCI (Multi-Institutional R33)
 Direct Funds: \$604,378
 PI: Joseph Paul Lattanzi, M.D
 Period of Funding: 1/01-1/04
 % of Effort: 5%

Title: P20 – Molecular Imaging of Responses to Cancer Therapy
 Source: NIH –NCI RFA CA-01-010
 Direct Funds:\$1,424,634
 PI: Michael Graham, MD PhD
 Period of Funding: 3/01-3/04
 % of Effort: 2.5%

Title: Extracranial stereotactic radiotherapy
 Source: Medtronic/ZMed
 Direct Funds: \$227,807
 PI: John Buatti, MD
 Period of Funding: 10/0-10/01
 % of Effort: n/a-contract

Title: Development of High Dose Rate (HDR) Brachytherapy Treatment
 Source: UIHC New Clinical Initiative
 Direct Funds: \$475,590
 PI: Sanford Meeks, PhD
 Period of Funding: 7/01-6/04
 % of Effort: n/a (Co-author)

Title: Neuro-Oncology in the New Millenium
 Source: UIHC New Clinical Initiative
 Direct Funds: \$211,750
 PI: John Buatti, MD
 Period of Funding: 6/01-3/02
 % of Effort: n/a

Title: Respiratory Gating for 4D-RT
 Source: Siemens
 Direct Funds 360,000
 PI John Bayouth, PhD
 Role: Co-investigator
 Grant Total: 120,000/yr
 Period of Funding: 6/05 – 6/08

Title: Diana Benz Memorial Seed Grant: Reflexology in Head and Neck Cancer Patients
 Source: Holden Comprehensive Cancer Center
 PI: Nicole Nisly
 Role: Co-Investigator
 Grant Total : \$19,525

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. Iowa Surgical Conference: University of Iowa – New Applications of Radiation Therapy – November 2004
158. Visiting Professor Medical College of Virginia scheduled Feb. 2005: Lecture: Current State of Stereotactic Radiation Therapy and Radiosurgery
159. Pediatric Radiation Therapy Update: Pediatric Hematology Oncology Conference – University of Iowa February 2005
160. Chairman, Extracranial Radiosurgery 1 Oral Session. International Stereotactic Radiosurgery Society 2005 Scientific Course. Brussels, Belgium. September 2005.
161. Visiting Professor Ohio State University scheduled March 2006

Patents

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

US Patent No. 6,390,982

Date: May 21, 2002

Title: "Ultrasonic guidance of target structures for therapeutic application."

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

Australian Patent No: 764,768

Date: July 15, 2004

Title: "Ultrasonic Guidance of Target Structures for Medical Procedures."

Pending decisions (grant proposals, book contracts) –

U.S. Patents Pending

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

Title and Description: "Analytic Characterization of Radiosurgery Dose Distributions".

Radiosurgery dose distributions are approximated by ellipsoids. These ellipsoids are graphically manipulated to provide the most conformal dose distribution possible.

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

Title and Description: "Optically Guided digital x-ray registration for radiotherapy localization." At the time of treatment, digital x-ray images obtained using the treatment beam are compared to pre-treatment images, and any displacement of the treatment target from the radiation beam is determined. Optic guidance, using either active or passive markers is used to track movements and realign the patient with the treatment beam.

IV. Service

Clinical Service

1. Clinic Director of the Department of Radiation Oncology – 1999-present
2. Co-Director Neuro-Oncology Program – Holden Comprehensive Cancer Center 2000-present. New program development in stereotactic radiosurgery, stereotactic radiotherapy, optic guided extracranial stereotactic radiotherapy and radiosurgery are all new programs in the last five years. In addition we have established a neuro-oncology clinic and tumor board beginning 2003 with Dr. Ryken and Carlisle and O'Dorisio in Pediatrics.
3. Specialty services in stereotactic radiosurgery, central nervous system tumors, stereotactic radiotherapy, intensity modulated radiotherapy. 1999-present
4. Thoracic Oncology service lead participant – 1999-2002
5. Gynecologic Oncology/Breast Service – 2001-2003
6. Lymphomas – 2000-2003 including Total Body Irradiation
7. Prostate Cancer – including implants 2001-2003
8. Extracranial Radiosurgery Program development – began treating patients 2001

Editorial Activities

Editorial Board

1998-pres Select Review in Neuro-Oncology, On line Review for Neurosurgery://On -Call Website for the College of Neurological Surgeons and American Association of Neurological Surgeons

1999-2003 Neuro-Oncology

2001-present Journal of Neuro-Oncology

2005 Up To Date for clinicians

Article Reviewer for: 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

Review Panels-Grant Reviews

National and International

1. A Randomized Trial of Best Supportive Care with or without Palliative Radiotherapy in Poor Prognosis High Grade Glioma (BR09). Medical Research Council London, England. (1998).
2. Pediatric Oncology Group. Ad Hoc Review of UOI Grant Proposal. (1999).
3. National Institute of Health, NINDS, Ad Hoc Review PO-1 Proposal. (1999)
4. Department of Defense – CDRMP Prostate Cancer Research Program. Panel Member on Therapeutic Intervention. (2001)
5. Review Panel Pediatric Oncology Group, Jacksonville, FL, Radiotherapy Section. (2002)
6. Quality Assurance Review Centers for Radiation Oncology. National Cancer Institute. (2003)
7. Review Panel Anghoff Meeting for CNS Tumors for ABR. (2004, 2005)
8. Review Panel National Institute of Health Loan Repayment Program. (2004, 2005)
9. A Phase I Study of Stereotactic Radiosurgery for Recurrent Pediatric Brain Tumors. Pediatric Brain Tumor Consortium Trial. (2004)
10. Department of Defense - Chairman, Review Panel for Prostate Cancer Research Program – Radiation Oncology. (2004 and 2005)

University – Cancer Center

1. Holden Comprehensive Cancer Center – Research Review Committee (2001-2005)

Professional Service

Departmental Committees

- 1992-93 Quality Assurance Committee, Dept of Radiation Oncology Univ. Arizona
- 1994 Search Committee - Radiation Biologist - Dept of Radiation Oncology (UF)

- 1995 Search Committee - Radiation Physics Faculty - Depart of Radiation Oncology (UF)
- 1997-98 Department of Radiation Oncology CQI Committee to review faculty research procedures
- 1997-98 Physician Faculty Search Committee, Department of Radiation Oncology (UF)
- 1998-99 Supervisor Research Office, Department of Radiation Oncology (UF)
- 2000 Member, Department of Radiology Quality Assurance Committee
- 2000 Member, Division of Radiation Oncology Search Committee for Physicians for UHC and Clinton
- 2000 Radiology Search Committee – program associate for radiation oncology
- 2000-pres Center of Excellence for Image Guided Radiation Therapy - Planning Committee
- 2001-pres Executive Committee – Department of Radiation Oncology
- 2001-pres Faculty Search Committee – Department of Radiation Oncology
- 2000 Grants Administrator Search Committee – Department of Radiation Oncology
- 2001 Search Committee Image Analyst, Nurse Coordinator and Clerk for Neuro-oncology Clinical Initiative
- 2003 Search Committee APN Nursing Supervisor
- 2003 Search Committee Data Manager
- 2004 Search Committee Physics and Electrical Engineering Joint Recruitment

Collegiate Committees

- 1995-96 Research Protocol Committee, Shands Cancer Center (UF)
- 1996-99 Institutional Review Board (UF)
- 1995-99 Hospice of North Central Florida Liaison
- 1999-2003 Cancer Center Marketing Advisory Group
- 2000-pres Cancer Center Executive Committee
- 2000-pres Cancer Center Research Review Committee
- 2000-2001 Medical Radiation Protection Committee
- 2000 Hospital Radiation Safety Review Group
- 2001-pres Clinical Outcomes and Resource Management Advisory Committee
- 2001 Neurosurgery Chairman Search Committee

- 2001-pres University Hospital Advisory Committee
- 2001-pres Senior Executive Leadership Council
- 2001-pres Medical Council/Executive Committee of Faculty Practice Plan
- 2001-pres Clinical Cancer Center Advisory Subcommittee
- 2001-2002 UI Healthcare Task Force to Evaluate Length of Stay: DRG 116, Cardiac Catheterization.
- 2002-pres Hospital Information Management Subcommittee of Hospital Advisory Committee
- 2002-pres Performance Value and Service Management Committee.
- 2002-2003 Emergency Medicine Residency Program Planning Group Committee (advisory after 2002).
- 2003-pres University of Iowa Health Care Joint Management Committee
- 2003-pres Co-Chair Data Safety Monitoring Board, Holden Comprehensive Cancer Center
- 2003 Chairman Search Committee for Associate Dean for Clinical Affairs and Associate Hospital Director/Chief of Medical Operations.
- 2003 Faculty Practice Plan Management Committee (elected).
- 2003 Vice-Chairman Faculty Practice Plan (elected), University of Iowa.
- 2004 Chairman of Pediatric Head Search Committee, University of Iowa.
- 2004 Ad Hoc Committee of the Credentials Subcommittee – Medical Panel, University of Iowa.
- 2004-pres Medical Student Promotions Committee, University of Iowa.
- 2004-pres Committee Member, Department of Dermatology Head Search, University of Iowa
- 2004-pres Committee Member, UIHC Strategic Plan Task Force, University of Iowa
- 2005 Committee Member, Carver College of Medicine Strategic Planning Committee – Clinical Services
- 2005 Carver College of Medicine – UIHC Joint strategic Planning Committee for Clinical Services
- 2005 Carver College of Medicine Sharing Agreement Advisory Committee

University Committees

- 1995-99 University Libraries Committee (UF)

National and International Committees

- 1995 X-Knife Consortium – Chairman Annual Meeting, December 1995
- 1995-99 Pediatric Oncology Group – Radiation Oncology Subcommittee Cancer Biology
- 1996-99 RT Study Coordinator POG 9432. A Phase II Study of Pre-Irradiation Chemotherapy in Newly Diagnosed Children with Intracranial Ependymoma
- 1997 Ad Hoc Committee for the Pediatric Oncology Group to Develop Criteria for Quality Assurance of 3D-Conformal Radiotherapy
- 1997-99 Co-Chair Stereotactic Radiosurgery Subcommittee of Pediatric Oncology Group Brain Tumor Group
- 1997-99 Brain Tumor Core Committee Member-Pediatric Oncology Group
- 1998 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. Study Co-Chair
- 1998-2000 Member, 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-pres American Association of Neurosurgery Consensus Guidelines for Treatment of Malignant Gliomas
- 2000 International Society of Stereotactic Radiosurgery-Scientific Program Committee for Meeting June 2001.
- 2003-pres Item writer for ACR exam, Certification Exam
- 2003 Selected to Board for International Society for Stereotactic Radiosurgery (2003-2005), Japan 2003.
- 2003-pres 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-pres Member, ASTRO Research Evaluation Committee
- 2004-pres Member, ASTRO Education Committee
- 2005 ACR Guidelines for Performance of Stereotactic Radiosurgery

Professional Affiliations

- 1989-Present American Society for Therapeutic Radiation and Oncology
- 1989-Present Radiation Research Society

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