

# **CURRICULUM VITAE**

## **BIOGRAPHICAL**

Name: John C. Flickinger, MD, FACR

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## **EDUCATION**

Years	School	Degree
1973 - 1977	University of Pittsburgh Pittsburgh, Pennsylvania	B.S. (Chemistry)
1977 - 1981	The University of Chicago Pritzker School of Medicine Chicago, Illinois	M.D.
1987 - 1988	Joseph M. Katz Graduate School of Business, Univ. of Pittsburgh	Unfinished (MBA)

## **POSTDOCTORAL TRAINING**

1981-1982                      Medical/Surgical Intern, The Waltham Hospital  
Waltham, Massachusetts

1982-1985                      Radiation Oncology Residency, Massachusetts  
General Hospital, Harvard Medical School  
General Hospital  
Chairman: Herman D. Suit, M.D., Ph.D.  
Residency Director: John E. Munzenrider, M.D.

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## **ACADEMIC APPOINTMENTS**

1982-1985                      Clinical Fellow in Therapeutic Radiology  
Harvard Medical School

1985-1990                      Assistant Professor of Radiation Oncology

1990-1995	University of Pittsburgh, School of Medicine Associate Professor of Radiation Oncology
1991-1995	University of Pittsburgh, School of Medicine Associate Professor of Neurological Surgery
1995-present	University of Pittsburgh, School of Medicine Professor of Radiation Oncology and Neurological Surgery University of Pittsburgh, School of Medicine

### **HOSPITAL APPOINTMENTS**

1985	Presbyterian-University Hospital
1986	Eye & Ear Hospital
1988	Shadyside Hospital
1990	Montefiore Hospital

### **CERTIFICATIONS**

1982	National Board of Medical Examiners
1985	American Board of Radiology (Therapeutic Radiology)

### **LICENSURE**

1985	Pennsylvania (#MD-033467-E)
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### **PROFESSIONAL SOCIETIES**

1985-present	American College of Radiology
1985-present	American Society for Therapeutic Radiology and Oncology
1985-present	Pennsylvania Medical Society
1985-present	Allegheny County Medical Society
1986-present	Pennsylvania Radiological Society
1987-present	Eastern Cooperative Oncology Group
1987-present	American Society of Clinical Oncology
1989-95	European Society for Therapeutic Radiology and Oncology
1991-present	International Stereotactic Radiosurgery Society

### **SERVICE**

1988-1989	Medical Care Review Committee Presbyterian-University Hospital
1987-present	Radiation Safety Committee

1988-1990	University of Pittsburgh Medical Economics/Benefit Committee Allegheny County Medical Society
1989-1994	Medical Staff Quality Improvement Committee Presbyterian-University Hospital
1990-present	Committee on Radiation Therapy Pennsylvania Radiologic Society
1992-present	Publications Committee, International Stereotactic Radiosurgery Society
1994-1995	Chairman, University of Pittsburgh Institutional Review Board Subcommittee on Radiation Safety
1998-present	Editorial Board, International Journal of Radiation Oncology Biology Physics
2004-present	University of Pittsburgh School of Medicine Clinical Research Steering Committee
2004-present	American Society for Therapeutic Radiology and Oncology, Technology Assessment Committee, Expert Panel on Brain Radiosurgery
<b>(9-06) NOTE:</b>	This finished last year (2005) after we published our findings I still serve on the University of Pittsburgh IRB too.

### ACADEMIC ACTIVITIES

Editorial board/Reviewer: International Journal of Radiation Oncology, Biology and Physics  
 Reviewer: Clinical Cancer Research Journal  
 Reviewer: American Journal of Clinical Oncology  
 Reviewer: Physics and Medicine in Biology  
 Reviewer: Radiotherapy and Oncology  
 Reviewer: Technology in Cancer Research and Treatment

### TEACHING EXPERIENCE

1983-1985	Harvard Medical School, Course #500M.3 MGH Core Clerkship in Radiology
1985-1986	Joint Radiation Oncology Center Teaching and supervision of Radiation Oncology residents
1985-present	Teaching and Supervision of University of Pittsburgh medical oncology fellows and medical students for elective rotations in Radiation Oncology
1988-present	Adviser for senior University of Pittsburgh medical students
1992-1995	Review courses on radiosurgery, American Society for Therapeutic Radiology and Oncology, 1992, 1994, 1995 and Radiological Society of North America Annual Meeting, Chicago, Illinois, December 1992, 1993
1992-1995	Clinical Epidemiology & Statistics, University of

	Pittsburgh School of Medicine (first year course): Small group discussion leader
1993	Review course on Radiosurgery. RSNA 79th Annual Meeting, Chicago, Illinois, December 1993
1994	Review course on Radiosurgery. American Society for Therapeutic Radiology and Oncology, 34th Annual Meeting, San Francisco, CA, October 6, 1994.
1994	Visiting Professor, National Cancer Institute, Bethesda, Maryland, November 4, 1994.
1995-present	Radiosurgery training course for neurosurgeons, radiation oncologists, and radiation physicists to train in radiosurgery. Originally 3 two-week courses per year, now six one-week courses per year. I deliver lectures on radiobiology, informed consent, and radiation dose selection, as well as assist with hands on training.

### **HONORS**

1977	Summa Cum Laude Graduate, University of Pittsburgh
1981	The Nels M. Strandjord Memorial Award for Radiology, The University of Chicago Pritzker School of Medicine
2002	Fellowship, American College of Radiology
2003	The Jacob Fabrikant Award of the International Stereotactic Radiosurgery Society for Outstanding Contributions to the Field of Radiosurgery.
2008	Pioneers in Radiosurgery Award for significant contributions to innovation and advancement in Gamma Knife surgery
2013	Resident Teaching Award

### **PEER REVIEWED ARTICLES**

1. De la Monte SM, Flickinger JC, Linggood RM: Histopathological features predicting recurrence of meningiomas following subtotal resection. *Am J Surg Pathol* 10:836-843, 1986.
2. Flickinger JC, Torres C, Deutsch M: Radiation therapy of glioma of the optic nerve and chiasm. *Cancer* 61:635-642, 1988.
3. Flickinger JC, Jawalekar J, Deutsch M, Webster J: Split course radiation therapy for adenocarcinoma of the pancreas. *Int J Radiat Oncol Biol Phys* 15:359-364, 1988.
4. Lunsford LD, Flickinger JC, Lindner G, Maitz A: Stereotactic radiosurgery of the brain using the first United States 201 Cobalt 60 source gamma knife. *Neurosurgery* 24:151-159, 1989.

5. Pollack IF, Lunsford LD, Flickinger JC, Dameshek HL: Prognostic factors in the diagnosis and treatment of primary central nervous system lymphoma. *Cancer* 63:939-947, 1989.
6. Flickinger JC, Deutsch M: Reconstructing tumor volumes from computed tomography scans to simulation films. *Radiotherapy Oncol* 14:151-158, 1989.
7. Flickinger JC, Deutsch M, Lunsford LD: Repeat megavoltage irradiation of pituitary and suprasellar tumors. *Int J Radiat Oncol Biol Phys* 17:171-175, 1989.
8. Nelson PB, Goodman ML, Flickinger JC, Richardson SW, Robinson AG: Endocrine function in patients with large pituitary tumors treated with operative decompression and radiation therapy. *Neurosurgery* 24:398-400, 1989.
9. Flickinger JC, Nelson PB, Martinez AJ, Taylor FH, Deutsch M, Robinson AG: Radiotherapy of nonfunctional adenomas of the pituitary gland, results with long-term follow up. *Cancer* 63:2409-2414, 1989.
10. Flickinger JC, Nelson PB, Taylor FH, Robinson AG: Incidence of cerebral infarction after radiotherapy for pituitary adenoma. *Cancer* 63:2404-2408, 1989.
11. Flickinger JC: An integrated logistic formula for prediction of complications from radiosurgery. *Int J Radiat Oncol Biol Phys* 17:879-885, 1989.
12. Altschuler EM, Lunsford LD, Coffey RJ, Flickinger JC: Gamma knife radiosurgery for intracranial arteriovenous malformations in childhood and adolescence. *Pediatr Neurosci* 15:53-61, 1989.
13. Maitz AH, Lunsford LD, Wu A, Lindner G, Flickinger JC: Shielding requirements on-site loading and acceptance testing of the Leksell gamma knife. *Int J Radiat Oncol Biol Phys* 18:469-476, 1990.
14. Flickinger JC, Kalend A: Use of normalized total dose to represent the biological effect of fractionated radiotherapy. *Radiotherapy Oncol* 17:339-347, 1990.
15. Flickinger JC, Lunsford LD, Wu A, Kalend AM: Treatment planning for gamma knife radiosurgery with multiple isocenters. *Int J Radiat Oncol Biol Phys*. 18:1495-1501, 1990.
16. Wu A, Lindner G, Maitz AH, Kalend AM, Lunsford LD, Flickinger JC, Bloomer WD: Physics of gamma knife approach on convergent beams in stereotactic radiosurgery. *Int J Radiat Oncol Biol Phys* 18:941-949, 1990.
17. Flickinger JC, Steiner L: Radiosurgery and the double logistic product formula. *Radiotherapy Oncol* 17:229-237, 1990.
18. Lunsford LD, Flickinger JC, Coffey RJ: Stereotactic gamma knife radiosurgery: Initial

- North American experience in 207 patients. *Arch Neurol* 47:169-175, 1990.
19. Linskey ME, Lunsford LD, Flickinger JC: Radiosurgery for acoustic neurinomas: Early experience. *Neurosurg* 26:736-745, 1990.
  20. Thompson BG, Coffey RJ, Flickinger JC, Lunsford LD: Stereotactic radiosurgery of small intracranial tumors: Neuropathological correlation in three patients. *Surg Neurology* 33:96-104, 1990.
  21. Flickinger JC, Lunsford LD, Singer J, Cano ER, Deutsch M: Supervoltage external beam irradiation of craniopharyngiomas: Analysis of tumor control and morbidity. *Int J Radiat Oncol Biol Phys* 19:117-122, 1990.
  22. Flickinger JC, Schell MC, Larson DA: Estimation of complications for linear accelerator radiosurgery with the integrated logistic formula. *Int J Radiat Oncol Biol Phys* 19:143-148, 1990.
  23. Lunsford LD, Altschuler EM, Flickinger JC, Martinez A, Wolfson S, Sciabassi R, Wolfe G, Wu A: In vivo radiobiology of stereotactic radiosurgery: A primate model. *Neurosurg* 27:373-382, 1990.
  24. Flickinger JC, Maitz AH, Kalend A, Lunsford LD, Wu A: Treatment volume shaping with selective beam blocking using the Leksell gamma unit. *Int J Radiat Oncol Biol Phys* 19:783-789, 1990.
  25. Kondziolka D, Lunsford LD, Coffey RJ, Bissonette DJ, Flickinger JC: Stereotactic radiosurgery of angiographically occult vascular malformations: Indications and preliminary experience. *Neurosurgery* 27:892-900, 1990.
  26. Lunsford LD, Kamerer DB, Flickinger JC: Stereotactic radiosurgery for acoustic neurinomas. *Arch Otolaryngol Head Neck Surg* 116:907-909, 1990.
  27. Altschuler E, Lunsford LD, Flickinger JC: Radiobiological models for radiosurgery. *Surgical Forum* 41:506-508, 1990.
  28. Kondziolka D, Lunsford LD, Coffey RJ, Flickinger JC: Cranial nerve preservation after stereotactic radiosurgery of acoustic neuroma. *Surgical Forum* 41:508-510, 1990.
  29. Flickinger JC, Lunsford LD, Coffey RJ, Linskey ME, Bissonette DJ, Maitz AH, Kondziolka D: Radiosurgery of acoustic neurinomas. *Cancer* 67:345-353, 1991.
  30. Kondziolka D, Lunsford LD, Coffey RJ, Flickinger JC: Stereotactic radiosurgery of meningiomas. *J Neurosurg* 74:552-559, 1991.
  31. Schell MC, Smith V, Larson DA, Wu A, Flickinger JC: Treatment planning optimization with cumulative dose volume histograms in linac-based radiosurgery. *Int J Radiat Oncol*

Biol Phys 20:1325-1330, 1991.

32. Coffey RJ, Flickinger JC, Bissonette DJ, Lunsford LD: Radiosurgery for brain metastases using the Cobalt-60 gamma unit: Methods and results in 24 patients . In *J Radiat Oncol Biol Phys* 20:1287-1295, 1991.
33. Flickinger JC, Lunsford LD, Wu A, Kalend A: Predicted dose-volume isoeffect curves for radiosurgery with the <sup>60</sup>Co gamma unit. *Acta Oncologica* 30:363-367, 1991.
34. Flickinger JC, Epstein AH, Iwatsuki S, Carr BI, Starzl TE: Radiotherapy for primary carcinoma of the extrahepatic biliary system: An analysis of 63 cases. *Cancer* 68:289-294, 1991.
35. Kondziolka D, Lunsford LD, Flickinger JC: The role of radiosurgery in the management of chordoma and chondrosarcoma of the cranial base. *Neurosurgery* 29:38-46, 1991.
36. Wu A, Flickinger JC, Kalend AM, Maitz AH, Lunsford LD: Exact determination of the magnification factor for target lesions in Leksell's stereotactic frame. *Medical Physics* 18:804-805, 1991.
37. Linskey ME, Lunsford LD, Flickinger JC: Neuroimaging of acoustic nerve sheath tumors after stereotactic radiosurgery. *AJNR* 12:1165-1175, 1991.
38. Kondziolka D, Lunsford LD, Flickinger JC: Stereotactic radiosurgery in children and adolescents. *Pediatric Neurosurg* 16:219-221, 1991.
39. Flickinger JC, Lunsford LD, Kondziolka D: Dose-volume considerations in radiosurgery. *Stereotact Funct Neurosurg* 57:99-105, 1991.
40. Lunsford LD, Kondziolka D, Flickinger JC, Bissonette DJ, Jungreis CA, Horton JA, Coffey RJ: Stereotactic radiosurgery for arteriovenous malformations of the brain. *J Neurosurgery* 75:512-524, 1991.
41. Coffey RJ, Flickinger JC, Lunsford LD, Bissonette D: Solitary brain metastasis. Radiosurgery in lieu of microsurgery in 32 patients. *Acta Neurochirurgica* 52:90-92, 1991.
42. Kondziolka D, Lunsford LD, Coffey RJ, Flickinger JC: Gamma knife radiosurgery of meningiomas. *Stereotact Funct Neurosurg* 57:11-21, 1991.
43. Altschuler E, Lunsford LD, Kondziolka D, Wu A, Maitz AH, Sclabassi R, Martinez AJ, Flickinger JC: Radiobiological models for radiosurgery. *Neurosurg Clin North America* 3:61-78, 1992.
44. Lunsford LD, Kondziolka D, Flickinger JC: Radiosurgery as an alternative to microsurgery for acoustic neurinomas. *Clinical Neurosurgery* 38:619-639, 1992.

45. Lunsford LD, Kondziolka D, Bissonette DJ, Maitz AH, Flickinger JC: Stereotactic radiosurgery of brain vascular malformations. *Neurosurg Clin North Am* 3:79-98, 1992.
46. Flickinger JC, Lunsford LD, Kondziolka D, Maitz AH, Epstein AH, Wu A: Radiosurgery and brain tolerance: An analysis of neurodiagnostic imaging changes following gamma knife radiosurgery for arteriovenous malformations. *Int J Radiat Oncol Biol Phys* 23:19-26, 1992.
47. Coffey RJ, Lunsford LD, Flickinger JC: The role of radiosurgery in the treatment of malignant brain tumors. *Neurosurg Clin North Am* 3:231-244, 1992.
48. Flickinger JC, Lunsford LD, Kondziolka D: Dose prescription and dose volume effects in radiosurgery. *Neurosurg Clin North Am* 3:51-60, 1992.
49. Linskey ME, Lunsford LD, Flickinger JC, Kondziolka D: Stereotactic radiosurgery for acoustic tumors. *Neurosurg Clin North America* 3:191-206, 1992.
50. Lunsford LD, Kondziolka D, Flickinger JC: Stereotactic radiosurgery: Current spectrum and results. *Clin Neurosurg* 38:405-444, 1992.
51. Stephanian E, Lunsford LD, Coffey RJ, Bissonette DJ, Flickinger JC: Gamma knife radiosurgery for sellar and suprasellar tumors. *Neurosurgical Clinics of North America* 3:207-218, 1992.
52. Linskey ME, Lunsford LD, Flickinger JC: Tumor control after stereotactic radiosurgery in patients with bilateral acoustic tumors. *Neurosurg* 31:829-839, 1992.
53. Keleti D, Flickinger JC, Hobson SR, Mittal BB: Radiotherapy of lymphoproliferative disease of the orbit: Surveillance of 65 cases. *Am J Clin Oncol* 15:422-427, 1992.
54. Kondziolka D, Lunsford LD, Claassen D, Maitz AH, Flickinger JC: Radiobiology of radiosurgery. Part 1: The normal rat brain model. *Neurosurg* 31:271-279, 1992.
55. Kondziolka D, Lunsford LD, Claassen D, Pandalai S, Maitz AH, Flickinger JC: Radiobiology of radiosurgery. Part 2: The rat C6 glioma model. *Neurosurg* 31:280-288, 1992.
56. Kondziolka D, Lunsford LD, Flickinger JC: Gamma knife radiosurgery of meningiomas. *Neurosurg Clin North Am* 3:219-230, 1992.
57. Lunsford LD, Kondziolka D, Bissonette DJ, Maitz AH, Flickinger JC: Stereotactic radiosurgery of brain vascular malformations. *Neurosurg Clin North America* 3:79-98, 1992.
58. Linskey ME, Lunsford LD, Flickinger JC, Kondziolka D: Stereotactic radiosurgery for acoustic tumors. *Neurosurg Clin North America* 3:191-205, 1992.
59. Linskey ME, Flickinger JC, Lunsford LD: The relationship of cranial nerve length to the



development of delayed facial and trigeminal neuropathies after stereotactic radiosurgery for acoustic tumors. *Int J Rad Onc Biol Phys* 15:227-234, 1993.

60. Linskey ME, Martinez AJ, Kondziolka D, Flickinger JC, Maitz AH, Whiteside T, Lunsford LD: The radiobiology of human acoustic schwannoma xenografts after stereotactic radiosurgery evaluated in the subrenal capsule of athymic mice. *J Neurosurgery* 78:645-655, 1993.
61. Duma CM, Lunsford LD, Kondziolka D, Harsh GR, Maitz AH, Bissonette DJ, Flickinger JC: Stereotactic radiosurgery of cavernous sinus meningiomas as an addition or alternative to microsurgery. *Neurosurgery* 32:699-705, 1993.
62. Flickinger JC, Lunsford LD, Linskey ME, Duma CM, Kondziolka, D: Gamma knife radiosurgery for acoustic tumors: Multivariate analysis of four year results. *Radiotherapy and Oncology* 27:91-98, 1993.
63. Kondziolka D, Lunsford LD, Flickinger JC: Intraparenchymal brain stem radiosurgery. *Neurosurg Clin North America* 4:469-479, 1993.
64. Flickinger JC, Lunsford LD, Kondziolka D, Maitz AH: Potential human error in setting stereotactic coordinates for radiosurgery: Implications for quality assurance. *Int J Radiat Oncol Biol Phys* 27:397-401, 1993.
65. Duma CM, Lunsford LD, Kondziolka D, Bissonette D, Somaza S, Flickinger JC: Radiosurgery for vascular malformations of the brain stem. *Acta Neurochir (Suppl)* 58:92-97, 1993.
66. Flickinger JC, Kondziolka D, Lunsford LD, Coffey RJ, Goodman ML, Shaw EG, Hudgins WR, Weiner R, Harsh GR, Sneed PK, Larson DA: A multi-institutional experience with stereotactic radiosurgery for solitary brain metastasis. *Int J Radiat Oncol Biol Phys* 28:797-802, 1994.
67. Cano E, Flickinger JC, Johnson J: Multivariate analysis results of radiotherapy for laryngeal cancer. *Head and Neck* 15:382-388, 1993.
68. Tishler RB, Loeffler JS, Lunsford LD, Duma C, Alexander E III, Kooy HM, Flickinger JC: Tolerance of cranial nerves of the cavernous sinus to radiosurgery. *Int J Radiat Oncol Biol Phys* 27:215-221, 1993.
69. Pollock BE, Kondziolka D, Lunsford LD, Flickinger JC: Preservation of cranial nerve function after radiosurgery for non-acoustic schwannomas. *Neurosurgery* 33(4):597-601, 1993.
70. Somaza S, Kondziolka D, Lunsford LD, Kirkwood J, Flickinger J: Stereotactic radiosurgery for cerebral metastatic melanoma. *J Neurosurg* 79:661-666, 1993.

71. Duma CM, Lunsford LD, Kondziolka D, Bissonette D, Somaza S, Flickinger J: Radiosurgery for vascular malformations of the brainstem. *Acta Neurochir (Suppl)* 58:92-97, 1993.
72. Ogunrinde OK, Lunsford LD, Flickinger JC, Kondziolka D. Stereotactic radiosurgery for acoustic tumors in patients with useful hearing: Results at two years. *J Neurosurg* 80:1011-1017, 1994.
73. Lunsford LD, Pollock BE, Kondziolka D, Levine G, Flickinger JC: Stereotactic options in the management of craniopharyngioma. *Pediatr Neurosurg* 21(1):90-97, 1994.
74. Pollock BE, Kondziolka D, Lunsford LD, Flickinger JC: Stereotactic radiosurgery for pituitary adenomas: Imaging, visual, and endocrine results. *Acta Neurochir Suppl* 62:5-10, 1994.
75. Pollock BE, Lunsford LD, Kondziolka D, Maitz A, Flickinger JC: Patient outcomes after stereotactic radiosurgery for "operable" arteriovenous malformations. *Neurosurgery* 35:1-8, 1994.
76. Lunsford LD, Kondziolka D, Flickinger JC: Radiosurgery of tumors of the cerebellopontine angle. *Clin Neurosurg* 41:168-184, 1994.
77. Lunsford LD, Somaza S, Kondziolka D, Flickinger JC: Survival after stereotactic biopsy and irradiation of cerebral non-anaplastic, non-pilocytic astrocytomas. *J Neurosurg* 82:523-529, 1995.
78. Kondziolka D, Somaza S, Flickinger JC, Claassen D, Lunsford LD: Cerebral radioprotective effects of high-dose pentobarbital evaluated in an animal radiosurgery model. *Neurol Res* 16:456-459, 1994.
79. Maitz AH, Wu A, Lunsford LD, Flickinger JC, Kondziolka D, Bloomer WD: Quality assurance for gamma knife stereotactic radiosurgery. *Int J Radiat Oncol Biol Phys* 32(5):1465-1471, 1995.
80. Ogunrinde OK, Lunsford LD, Flickinger JC, Kondziolka D: Cranial nerve preservation after stereotactic radiosurgery for small acoustic tumors. *Arch Neurol* 52:73-79, 1995.
81. Pollock BE, Lunsford LD, Kondziolka D, Levine G, Flickinger JC: Phosphorus-32 intracavitary irradiation of cystic craniopharyngiomas: Current technique and long-term results. *Int J Radiat Oncol Biol Phys* 33:437-446, 1995.
82. Kondziolka D, Lunsford LD, Flickinger JC: Reduction of hemorrhage risk after stereotactic radiosurgery for cavernous malformations. *J Neurosurg* 83:825-831, 1995.
83. Pollock BE, Lunsford LD, Kondziolka D, Flickinger JC, Bissonette DJ, Kelsey SF, Jannetta PJ: Outcome analysis of acoustic neuroma management: A comparison of microsurgery and

stereotactic radiosurgery. *Neurosurgery* 36:215-229, 1995.

84. Stock RG, Chen A, Flickinger JC, Kalnicki S, Seski J: Node positive cervical cancer: Impact of pelvic irradiation and patterns of failure. *Int J Radiat Oncol Biol Phys* 31:31-36, 1995.
85. Ogunrinde OK, Lunsford LD, Kondziolka D, Bissonette DJ, Flickinger JC: Cranial nerve preservation after stereotactic radiosurgery for intracanalicular acoustic tumors. *Stereotact Funct Neurosurg* 64: 87-97, 1995.
86. Lunsford LD, Witt T, Kondziolka D, Flickinger JC: Stereotactic radiosurgery of anterior skull base tumors. *Clin Neurosurg* 42:99-118, 1995.
87. Lunsford LD, Somaza S, Kondziolka D, Flickinger JC: Brain astrocytomas: Biopsy, then irradiation. *Clin Neurosurg* 42:464-479, 1995.
88. Pollock BE, Lunsford LD, Kondziolka D, Bissonette DJ, Flickinger JC: Stereotactic radiosurgery for postgeniculate visual pathway arteriovenous malformations. *J Neurosurg* 84:437-441, 1996.
89. Firlik KS, Kondziolka D, Lunsford LD, Janecka IP, Flickinger JC: Radiosurgery for recurrent cranial base cancer arising from the head and neck. *Head and Neck* 18:160-166, 1996.
90. Pollock BE, Kondziolka D, Lunsford LD, Bissonette D, Flickinger JC: Repeat stereotactic radiosurgery of arteriovenous malformations: Early results and factors associated with incomplete obliteration. *Neurosurgery* 38:318-324, 1996.
91. Gerszten PC, Lunsford LD, Rutigliano MJ, Kondziolka D, Flickinger JC, Martinez AJ: Single stage stereotactic diagnosis and radiosurgery: Feasibility and cost implications. *J Image Guided Surg* 1:141-150, 1995.
92. Flickinger JC, Kondziolka D, Lunsford LD: Radiosurgery of benign lesions. *Seminars in Radiation Oncology* 5:220-224, 1995.
93. Lunsford LD, Somaza S, Kondziolka D, Flickinger JC, Bissonette DJ, Kelsey SF, Jannetta PJ: Outcome analysis of acoustic neuroma management: a comparison of microsurgery and stereotactic radiosurgery. *Neurosurgery* 36:215-229, 1995.
94. Pollock BE, Flickinger JC, Lunsford LD, Kondziolka D: Factors that affect the hemorrhage risk of arteriovenous malformations. *Stroke* 27:1-6, 1996.
95. Grabb P, Lunsford LD, Albright L, Kondziolka D, Flickinger JC: Stereotactic radiosurgery for glial neoplasms of childhood. *Neurosurgery* 38:696-702, 1996.
96. Kondziolka D, Lunsford LD, Flickinger JC, Young RF, Vermeulen S, Duma CM, Jacques

- DB, Rand RW, Regis J, Peragut JC, Epstein M, Lindquist C: Stereotactic radiosurgery for trigeminal neuralgia: A multi-institution study using the gamma unit. *J Neurosurg* 84:940-945, 1996.
97. Kondziolka D, Flickinger JC, Lunsford LD: Trigeminal neuralgia radiosurgery: The University of Pittsburgh experience. *Stereotact Funct Neurosurg* 66:, 1996.
98. Pollock BE, Flickinger JC, Lunsford LD, Kondziolka D: Hemorrhage risk after radiosurgery for arteriovenous malformations. *Neurosurgery* 38: No. 4, 1996.
99. Gerszten PC, Adelson PD, Kondziolka D, Flickinger JC, Lunsford LD: Seizure outcome in children treated for arteriovenous malformations after gamma knife radiosurgery. *Ped Neurosurg* 24:139-144, 1996.
100. Flickinger JC, Pollock BE, Kondziolka D, Lunsford LD: A dose-response analysis of arteriovenous malformation obliteration after radiosurgery. *Int J Radiat Oncol Biol Phys* 36:873-879, 1996.
101. Flickinger JC, Kondziolka D, Pollock BE, Lunsford LD: Evolution of technique for vestibular schwannoma radiosurgery and effect on outcome. *Int J Radiat Oncol Biol Phys* 36:275-280, 1996.
102. Patrice SJ, Sneed P, Flickinger JC, Shrieve D, Pollock B, Alexander E, Larson D, Kondziolka D, Gutin P, Wara W, McDermott M, Lunsford LD, Loeffler JS: Radiosurgery for hemangioblastoma: Results of a multi-institutional experience. *Int J Radiat Oncol Biol Phys*.
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104. Pollock BE, Kondziolka D, Flickinger JC, Patel AK, Bissonette D, Lunsford LD: Magnetic resonance imaging: An accurate method to evaluate arteriovenous malformations after stereotactic radiosurgery. *J Neurosurg* 85:1044-1049, 1996.
105. Larson D, Gutin P, McDermott M, Lamborn K, Sneed P, Wara W, Flickinger JC, Kondziolka D, Lunsford LD, et al: Gamma knife for glioma: Selection factors and survival. *Int J Radiat Oncol Biol Phys* 36:1045-1053, 1996.
106. Somaza S, Lunsford LD, Kondziolka D, Flickinger JC, et al: Early outcomes after stereotactic radiosurgery for growing pilocytic astrocytomas in children. *Ped Neurosurg* 25:109-115, 1996.
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#### **TEXTBOOK CHAPTERS AND INVITED PUBLICATIONS**

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### ABSTRACTS

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Neurologic Surgeons, Philadelphia, PA, April, 1998.

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99. Mathieu David, MD, Kondziolka, D., MD., Niranjan, A., MCh., Flickinger, JC., MD., Lunsford, D., MD. Gamma knife thalamotomy for multiple sclerosis tremor. *Surgical neurology* 68 (2007) 394-399. (ScienceDirect).

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### INVITED LECTURES AND PRESENTATIONS

1. Flickinger JC, del la Monte SM, Austin Seymour MD, Linggood RM, Boyle P: Radiotherapy for meningioma. Presented at the 29th Annual ASTRO Meeting, New Orleans, LA. October 1985.
2. Flickinger JC, Torres C, Deutsch M: Radiation therapy of glioma of the optic nerve and chiasm. Presented at the 69th Annual Meeting of the American Radium Society, London, UK. April 1987.
3. Flickinger JC, Nelson PB, Deutsch M: Radiotherapy for macroadenomas of the pituitary gland with mass effect. Presented at the 70th Annual Meeting of the American Radium Society, Seattle, WA. April 1988.
4. Flickinger JC, Lunsford LD, Lindner G, Smara N: Multiple shot treatment planning for the gamma knife. Presented at the 30th Annual ASTRO Meeting, New Orleans, LA. October 1988.
5. Flickinger JC: Radiosurgery with the gamma knife. Presented at the Pennsylvania Oncologic Society Meeting, Philadelphia, PA. October 1988.
6. Flickinger JC: Application of radiobiological models for radiosurgery. Presented at the University of Virginia Radiosurgery Symposium, Charlottesville, WV. May 1989.
7. Flickinger JC, Maitz AH, Kalend A, Lunsford LD, Wu A: Treatment volume shaping with selective beam blocking using the Leksell gamma unit. Presented at the 31st Annual ASTRO Meeting, San Francisco, CA. October 1989.
8. Invited Lecture: Flickinger JC, Lunsford LD, Kondziolka D: Dose-volume considerations in radiosurgery. *Radiosurgery Update*, Harvard Medical School, June 1990.
9. Flickinger JC, Lunsford LD, Kondziolka D, Bissonette DJ, Coffey RJ: Radiosurgery of acoustic neuromas. Presented at the 32nd Annual ASTRO Meeting, Miami, FL, October 1990.

10. Flickinger JC, Lunsford LD, Kondziolka D: Radiosurgery of acoustic neurinomas and meningiomas. Symposium on stereotactic treatment of brain tumors, Memorial Sloan-Kettering Cancer Center, New York, February 1991.
11. Invited Lecture: Flickinger JC, Lunsford LD, Kondziolka D: Radiosurgery of meningiomas and acoustic neuromas. Second symposium on stereotactic treatment of brain tumors. Memorial Sloan-Kettering Cancer Center, New York, NY, March 1991.
12. Invited Lecture: Flickinger JC., Lunsford LD, Kondziolka D: Gamma knife radiosurgery for the treatment of brain tumors. Second international neuro-oncology conference. London, UK, March 1991.
13. Invited Lecture: Flickinger JC: Dose prescription in radiosurgery. American Association of Neurological Surgeons, Practical Clinic on Stereotactic Radiosurgery. New Orleans, Louisiana, April 1991.
14. Flickinger JC, Lunsford LD, Kondziolka D, Maitz AH, Epstein A, Wu A: An analysis of imaging changes after gamma knife radiosurgery. International Stereotactic Radiosurgery Symposium, Pittsburgh, PA, June 1991.
15. Invited Lecture: Flickinger JC: Radiosurgery of tumors with the gamma knife. Northeastern Society of Clinical Oncology, Albany, New York, September, 1991.
16. Invited Lecture: Flickinger JC: Stereotactic Radiosurgery. Albany Medical College Radiation Oncology Update '91. Albany, New York, September, 1991.
17. Flickinger JC, Lunsford LD, Kondziolka D, Maitz AH, Epstein AH, Simons SR, Wu A: An analysis of neurodiagnostic imaging changes after gamma knife radiosurgery for arteriovenous malformations. American Society for Therapeutic Radiology and Oncology 33rd Annual Meeting, Washington, D.C., November, 1991.
18. Flickinger JC, Carr BI: Radiotherapy alone compared to liver transplantation and neoadjuvant chemo-radiotherapy for hilar cholangiocarcinoma. The 74th Annual Meeting of The American Radium Society, Orlando, Florida, April 11-15, 1992.
19. Flickinger JC, Lunsford LD, Kondziolka D, Duma C, Maitz A, Kirkwood J: Radiosurgery for brain metastases with and without fractionated whole brain radiotherapy. The 74th Annual Meeting of The American Radium Society, Orlando, Florida, April 11-15, 1992.
20. Invited Lecture: Flickinger JC: Radiosurgery planning for the gamma unit. UCLA "Hands-on" Stereotactic Surgery and Radiosurgery Workshop. August 22, 1992.
21. Invited Lecture: Flickinger JC: Gamma knife radiosurgery: technique and planning. European Society for Therapeutic Radiology and Oncology (ESTRO), 11th Annual Meeting, Malmu, Sweden. September 4, 1992.

22. Invited Lecture: Flickinger JC: Radiosurgery: Analysis of complications. American Society for Therapeutic Radiology and Oncology, 34th Annual Meeting, San Diego, CA. November 12, 1992.
23. Review Course: Flickinger JC, Loeffler JS: Stereotactic radiosurgery. American Society for Therapeutic Radiology and Oncology, 34th Annual Meeting, San Diego, CA. November 12, 1992.
24. Flickinger JC, Lunsford LD, Linskey ME, Maitz AH, Kondziolka DK: Gamma knife radiosurgery for acoustic tumors: four year results and multivariate analysis of treatment technique. American Society for Therapeutic Radiology and Oncology, 34th Annual Meeting, November 9, 1992.
25. Invited Lecture: Flickinger JC: Radiation treatment of acoustic tumors and meningiomas. Harvard Medical School Post Graduate Course: Tumors of the Central Nervous System, Boston, MA., December 1, 1992.
26. Invited Lecture: Flickinger JC: Radiation treatment of meningiomas. Harvard Medical School Post Graduate Course: Tumors of the Central Nervous System, Boston, MA., December 1, 1992.
27. Review Course: Loeffler JS, Flickinger JC: Stereotactic radiosurgery in the management of intracranial lesions. Radiobiological Society of North America 78th Annual Meeting, December 2, 1992.
28. Invited Lecture: Flickinger JC: Current status of stereotactic radiotherapy in the treatment of AVM's and benign tumors. May 5, 1993, New York Roentgen Society Spring Conference, May 5-8, 1993, New York, New York.
29. Invited Lecture: Flickinger JC: Stereotactic radiosurgery with the gamma knife. September 10, 1993. Third Annual Cancer Conference, St. Mary's Hospital, Huntington, W. VA.
30. Flickinger JC, Kondziolka D, Lunsford LD, et al: A multi-institutional experience with stereotactic radiosurgery for solitary brain metastasis. American Society for Therapeutic Radiology and Oncology, New Orleans, LA, October 12, 1993.
31. Invited Lecture: Flickinger JC: Dose volume effects in radiosurgery. Allegheny General Hospital Radiation Oncology Seminar, October, 1994, Pittsburgh, PA.
32. Review Course: Loeffler JS, Flickinger JC: Stereotactic Radiosurgery. American Society for Therapeutic Radiology and Oncology. San Francisco, CA, October 3, 1994.
33. Invited Lecture: Flickinger JC: Radiosurgery: Results and complications, October 4, 1994, National Cancer Institute, Bethesda, Maryland.

34. Invited Lecture: Flickinger JC: Radiosurgery in the treatment of brain metastases. International Stereotactic Radiosurgery Society 2nd Congress Meeting, Boston, MA., June 14, 1995.
35. Invited Lecture: Flickinger JC: Radiosurgery of benign tumors. International Stereotactic Radiosurgery Society 2nd Congress Meeting, Boston, MA., June 15, 1995.
36. Invited Lecture: Flickinger JC: Skull base tumors and cranial nerve tolerance. International Stereotactic Radiosurgery Society 2nd Congress Meeting, Boston, MA., June 16, 1995.
37. Flickinger JC, Kondziolka D, Pollock BE, Lunsford LD: Improvements in vestibular schwannoma radiosurgery. International Stereotactic Radiosurgery Society 2nd Congress Meeting, Boston, MA., June 16, 1995.
38. Invited Lecture: Flickinger JC, Meisel A, Kondziolka D, Lunsford LD: Informed consent for radiosurgery. International Stereotactic Radiosurgery Society 2nd Congress Meeting, Boston, MA., June 17, 1995.
39. Flickinger JC, Kondziolka D, Kalend AM, Maitz AH, Lunsford LD: Radiosurgery-related imaging changes in surrounding brain: multivariate analysis and model evaluation. International Stereotactic Radiosurgery Society 2nd Congress Meeting, Boston, MA., June 17, 1995.
40. Review Course: Loeffler JS, Flickinger JC: Stereotactic Radiosurgery. American Society for Therapeutic Radiology and Oncology. Miami Beach, FL, October 10, 1995.
41. Flickinger JC, Kondziolka D, Pollock B, Lunsford LD: Improved results for vestibular schwannoma radiosurgery. American Society for Therapeutic Radiology and Oncology. Miami Beach, FL, October 10, 1995.
42. Flickinger JC: Radiosurgery for benign and malignant brain lesions. The Pennsylvania Radiological Society 81st Annual Meeting, Hershey, Pennsylvania, May 17-18, 1996.
43. Flickinger JC: Stereotactic radiosurgery Refresher Course, ASTRO 38th Annual Meeting, Los Angeles, California, October 28, 1996. (Invited Lecturer)
44. Flickinger JC: Strategies for dosimetry optimization in Radiosurgery. International Stereotactic Radiosurgery Society 3rd Congress, Madrid, Spain, June 25-28, 1997.
45. Flickinger JC: Optimum dose for vascular radiosurgery. International Stereotactic Radiosurgery Society 3rd Congress, Madrid, Spain, June 25-28, 1997.
46. Flickinger JC, Kondziolka D, Maitz AH, Lunsford LD. Analysis of neurological sequelae from radiosurgery of arteriovenous malformations: How location effects outcome. ASTRO 39th Annual Meeting, Orlando, Florida, October 22, 1997.
47. Flickinger JC. Stereotactic Radiosurgery Refresher Course, ASTRO 39th Annual Meeting, Orlando, Florida, October 21, 1997. (Invited Lecturer)

48. Flickinger JC: Stereotactic Radiosurgery Refresher Course, ASTRO 40th Annual Meeting, Phoenix, Arizona, October 24, 1998. (Invited Lecturer)
49. Flickinger JC: Radiosurgical Tolerance, LINAC Radiosurgery Meeting, Lake Buena Vista, Florida, December 11, 1998. (Invited Lecturer)
50. Flickinger JC: Arteriovenous Malformations: Radiosurgical Retreatment. LINAC Radiosurgery Meeting, Lake Buena Vista, Florida, December 13, 1998. (Invited Lecturer)
51. Flickinger JC: Radiosurgery Dose Guidelines. New York Roentgen Society, New York, New York, February 8, 1999. (Invited Lecturer)
52. Flickinger JC: Radiosurgery Dose Guidelines. Visiting Professor. New York University, New York, New York, February 8, 1999. (Invited Lecturer)
53. Flickinger JC: Development of a Model to Predict Permanent Symptomatic Post-Radiosurgery Injury to Arteriovenous Malformation Patients. ARS Meeting, London, England, March 28 – April 5, 2000.
54. Flickinger JC: Late Risks of Radiosurgery: Necrosis & Second Tumors. Leksell Gamma Knife Society, Squaw Valley, California, April 13 – 14, 2000.
55. Flickinger JC: Acoustic Neuroma Management Conudrums. Triological and Otolaryngology Societies, Orlando, Florida, May 14, 2000.
56. Flickinger JC: Basic Radiobiology Lecture; Informed Consent Lecture; Dose Selection Lectures. Gamma Knife Course, Pittsburgh, PA, May 16 – 18, 2000.
57. Flickinger JC: Radiotherapeutic Salvage of Metastatic Melanoma. Perspectives in Melanoma IV Conference, Pittsburgh Hilton, Pittsburgh, PA, June 2, 2000. (Invited Lecturer)
58. Flickinger JC: Basic Radiobiology Lecture; Informed Consent Lecture; Dose Selection Lecture. Gamma Knife Course, Pittsburgh, PA, July 11 – 13, 2000.
59. Flickinger JC: Basic Radiobiology Lecture; Informed Consent Lecture; Dose Selection Lecture. Gamma Knife Course, Pittsburgh, PA, September 12 – 14, 2000.
60. Flickinger JC: Radiosurgery of Malignant Brain Tumors. Civic Center, Franklin, PA, September 15, 2000.
61. Flickinger JC: Radiosurgery Refresher Course. American Society for Therapeutic Radiology and Oncology (ASTRO), Boston, MA, October 23 – 25, 2000.
62. Flickinger JC: Basic Radiobiology Lecture; Informed Consent Lecture; Dose Selection Lecture. Gamma Knife Course, Pittsburgh, PA, January 9 – 11, 2001.

63. Flickinger JC: Principles of Radiation Oncology. Fellow Noon Lecture Series, Montefiore Hospital, Pittsburgh, PA, February 23, 2001.
64. Flickinger JC: Radiation Oncology Career Prospects. Given at Career Luncheon in UPMC-PUH on March 15, 2001.
65. Flickinger JC: Gave a Lecture: Advances in Cranial Base Surgery, Panel for Dr. Kondziolka, Pittsburgh, PA on May 4, 2001.
66. Flickinger JC: Basic Radiobiology Lecture; Informed Consent Lecture; Dose Selection Lecture. Gamma Knife Course, Pittsburgh, PA, May 8 – 10, 2001.
67. Flickinger JC: Basic Radiobiology Lecture; Informed Consent Lecture; Dose Selection. Gamma Knife Course, Pittsburgh, PA five to six times per year since 2001.
68. Flickinger JC: Lecture given at Tri-State Radiation Therapy Conference, September 8, 2001.
69. Flickinger JC: Principles of Radiation Biology given for Cancer Biology & Therapeutics Course, BST Bldg. Pittsburgh, PA, October 24, 2001.
70. Invited Lecture: Flickinger JC: Stereotactic Radiotherapy, North American Skull Base Society Meeting, San Deigo, CA, February 17, 2002.
71. Invited Lecture: Flickinger JC: Linear Quadratic alpha/beta values for target and normal tissue injury dose-response from arteriovenous malformation and acoustic neuroma radiosurgery, International Meeting of the Leksell Gamma Knife Society, Prague, Czech Republic, May 13, 2002.
72. Flickinger JC; Kondziolka D; Maitz A; Lunsford LD. Gamma knife radiosurgery of imaging-diagnosed intracranial meningioma. 44<sup>th</sup> Annual Meeting of the American Society for Therapeutic Radiology and Oncology, October 7, 2002, New Orleans, LA.
73. Flickinger JC. Intensity modulated radiation therapy of brain tumors. D3 course on IMRT, Pittsburgh PA. 2-3 times per year since Feb 2003.
74. Flickinger JC (Invited lectures) Radiobiology of Radiosurgery, Radiotherapy vs Radiosurgery of Acoustic Neuroma, Radiosurgery of Brain Metastases. Marseille, France. Oct 13-15, 2003.
75. Flickinger, JC (Invited lecture): Radiosurgery of brain metastases with and without whole brain radiotherapy. Cleveland Clinic, Neuro-oncology 2004, Current Concepts, Orlando FL. Feb 1, 2004.
76. Flickinger, JC: Principles of Radiotherapy for Cancer Biology & Therapeutics Course, BST Bldg. Pittsburgh, PA. October 1, 2004.

77. Flickinger, JC. Lecture “Craniopharyngioma” Tuesday, Oct. 5, 2004. Presentation “Benign Tumors of Central Nervous System” October 6, 2004. ASTRO-2004 Annual Meeting in Atlanta, Georgia. October 3-7.
78. Flickinger, JC: (Lecture given): Radiobiology Factors in Radiosurgery of the Brain and Spine, Neuro-Oncology Symposium, Hillman Cancer Center, Pittsburgh, PA. September 9, 2005.
79. Flickinger, JC: (Lecture given): Estimating tumor definition variability in acoustic schwannoma radiosurgery, and how it affects dosimetry. International Stereotactic Radiosurgery Society Congress. Brussels, Belgium. September 12, 2005.
81. Flickinger, JC: (Lecture given): Relative risk of cancerogenesis after fractionated and single-dose stereotactic irradiation. International Stereotactic Radiosurgery Society Congress, Brussels, Belgium. September 13, 2005.
82. Flickinger, JC: (Lecture given): How much does the addition of stereotactic T2 images affect tumor definition and treatment plans for acoustic schwannoma radiosurgery. International Stereotactic Radiosurgery Society Congress. Brussels, Belgium. September 15, 2005.
83. Flickinger JC: Principles of Radiotherapy for Cancer Biology & Therapeutics Course, BST Bldg. Pittsburgh, PA. October 5, 2005.
84. Flickinger, JC: IMRT and Brain, Clinical application of IMRT, D3 Radiation Planning. “Use of IMRT for brain tumors”, Pittsburgh, PA. November 20, 2005
85. Flickinger, JC: (Lecture given): “Brain Tumors”. Shadyside Hospital, Ground Level Radiation Oncology, Pittsburgh, PA. February 28, 2006.
86. Flickinger, JC: (Invited Lecture given): “Target Delineation for Stereotactic Radiosurgery”. Annual Pool Society Meeting. Augusta, Georgia. March 4, 2006.
87. Flickinger JC: (Lecture given) Principles and Practice of Palliative Care lecture. ‘Palliative Uses of Radiation Therapy’. Parkvale Plaza Building, Pittsburgh, PA. 15213. April 3, 2006.
88. Flickinger, JC: (Lecture) “Radiobiological review” SRS Training program. Hillman Conference Center, Shadyside Hospital, Pittsburgh, PA. 15232. August 23, 2006.
89. Flickinger JC: “Multivariate and Subgroup Analysis of Radiotherapy in Surgical Patients with Non- Small Cell Lung Cancer from the SEER Database.” at ASTRO’s 48<sup>th</sup> Annual Meeting. November 5 to 7, 2006, Philadelphia, PA, 2006.
90. Flickinger, JC: (Lecture) “Palliative uses of Radiation Therapy” for “Principles and practice of Palliative care” course. Parkvale Plaza Building, Pittsburgh, PA. 15213. November 13, 2006.



91. Flickinger, JC: (Lecture) "Radiobiological Review" (lecture covering radiobiological concepts of SRS, critical structure tolerances and toxicity). January 17, 2007. Herberman Conference Center, Pittsburgh, PA.
92. Flickinger, JC: (Lecture) "Presentation on Anatomy of the Brain". D-3 Physics, Webex. Pittsburgh, PA. 15213. February 15, 2007.
93. Flickinger, JC: (Lecture) "Presentation on Radiosurgery" Herberman Conference Center, Pittsburgh, PA. February 21, 2007.
94. Flickinger, JC: (Lecture) "Brain" Case studies, D3 Radiation Planning, Physicians Training. Cooper Conference Room, Hillman Cancer Center, Pittsburgh, PA. March 24, 2007.
95. Flickinger, JC: (Oral presentation) "AVM obliteration dose-response for initial versus repeat radiosurgery", at ISRS 8<sup>th</sup> Annual Meeting. San Francisco, California, USA. June 23 to June 27, 2007.
96. Flickinger, JC: (Oral presentation) "Modification of the radiosurgery-based arteriovenous malformation grading scale", at ISRS 8<sup>th</sup> Annual Meeting. San Francisco, California, USA. June 23 to June 27, 2007.
97. Flickinger, JC: (Oral presentation) "Multivariate analysis of factors potentially affecting obliteration following AVM radiosurgery", at ISRS 8<sup>th</sup> Annual Meeting. San Francisco, California, USA. June 23 to June 27, 2007.
98. Flickinger, JC: (Lecture) "Radiobiological Review", D3 Radiation Planning. Shadyside Hospital, Herberman Conference Center, Pittsburgh, PA. September 19, 2007.
99. Flickinger, JC: (Lecture) "Brain "case studies, D3 Radiation Planning. Shadyside Hospital, Herberman Conference Center, Pittsburgh, PA. October 6, 2007.
100. Flickinger, JC: (Lecture) "Radiation for Chordomas", Clinical Oncology Grand Rounds. UPMC Cancer Pavilion, 2nd Floor, Shadyside. Pittsburgh, PA. 15232. October 17, 2007.
101. Flickinger, JC: (Lecture) "Radiobiological Review", D3 Varian SRS Course. Courtyard Marriott, Shadyside, Pittsburgh, PA. 15232. November 14, 2007.
102. Flickinger, JC: (Lecture) "Radiobiological Review", D3 Varian SRS Course. Courtyard Marriott, Shadyside, Pittsburgh, PA. 15232. May 14<sup>th</sup> to May 15<sup>th</sup>, 2008.
103. Flickinger, JC: (Invited Lecture) "Optic Nerve Tolerance", 14<sup>th</sup> International Leksell GK Society Meeting. Quebec, Quebec, Canada. May 18<sup>th</sup> to May 22<sup>nd</sup>, 2008.
104. Flickinger, JC: (Poster Viewing Presentation) "Effect of RPA Class in Patients with Anaplastic Astrocytoma and Glioblastoma treated with IMRT, with and without Concurrent Temozolomide.", at ASTRO'S 50<sup>th</sup> Annual Meeting. September 22-24, 2008. Boston,

Massachusetts, 02201.

105. Flickinger, JC: (Invited Lecturer) “Setting the New Limits of Radiosurgical Safety”. Northwestern University 3<sup>rd</sup> Annual Radiosurgery Symposium. October 3, 2008. Chicago, IL., 60611.
106. Flickinger, JC: (Lecture) “Palliative Uses of Radiation Therapy”. Principles and Practice of Palliative Care Course 2008. November 17, 2008. 219 Parkvale Building, Pittsburgh, PA. 15213.
107. Flickinger, JC: (Invited Lecturer) “Radiation Oncology” Grand Rounds Speaker at the University of Rochester. April 16 and April 17, 2009. University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642-8647.
108. Flickinger, JC: (Lecture) “Radiobiological Review”. D3 Varian SRS Course. Shadyside Hospital. Herberman Conference Center. Pittsburgh, Pa. 15232. September 29, 2009.
109. Flickinger, JC: (Posterior Viewing Presentation) “Postoperative External Beam Radiotherapy for Keloids: Radiobiological Analysis of Multicenter Data” at ASTRO’S 51<sup>st</sup> Annual Meeting. November 2-4, 2009. Chicago, Illinois 60611.
110. Flickinger, JC: (Lecture) “Palliative Uses of Radiation Therapy”. Principles and Practice of Palliative Care Course 2009. November 16, 2009. G 100 Montefiore Hospital, Pittsburgh, PA. 15213.
111. Flickinger JC (invited lecture): **Radiosurgical Management of AVMs- The Pittsburgh Experience**. Sep 7<sup>th</sup>, 2012. Northwestern Radiosurgery Symposium, Chicago II

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### TEACHING EXPERIENCE

1983-1985	Harvard Medical School, Course #500M.3 MGH Core Clerkship in Radiology
1985-1986	Joint Radiation Oncology Center Teaching and supervision of Radiation Oncology residents
1985-present	Teaching and Supervision of University of Pittsburgh medical oncology fellows and medical students for elective rotations in Radiation Oncology
1988-present	Adviser for senior University of Pittsburgh medical students
1992-1995	Review courses on radiosurgery, American Society for Therapeutic Radiology and Oncology, 1992, 1994, 1995 and Radiological Society of North America Annual Meeting Chicago, Illinois, December 1992, 1993 Meeting, Chicago, Illinois, December 1992, 1993
1992-2000	Clinical Epidemiology and Statistics, University of Pittsburgh School of Medicine (first year course):

1993	Small group discussion leader Review course on Radiosurgery. RSNA 79th Annual Meeting, Chicago, Illinois, December 1993
1994	Review course on Radiosurgery. American Society for Therapeutic Radiology and Oncology, 34th Annual Meeting, San Francisco, CA, October 6, 1994.
1994	Visiting Professor, National Cancer Institute, Bethesda, Maryland, November 4, 1994.
1995-present	Radiosurgery training course for neurosurgeons, radiation oncologists, and radiation physicists to train in radiosurgery. Originally 3 two-week courses per year, now six one-week courses per year. I deliver lectures on radiobiology, informed consent, and radiation dose selection, as well as assist with hands on training
2000-present	Lecture for Cancer Biology and Experimental Therapeutics Course, Dr. Yalowich co-ordinator, Radiotherapy and Radiobiology, yearly 1 hr lecture since October, 2000.
2003-present	Intensity modulated radiation therapy of brain tumors. D3 course on IMRT, Pittsburgh PA. 2-3 times per year

### **OTHER TEACHING**

1. Radiation Oncology Clerkship (Course #5620X) – 1 student during 3/13 to 3/18/00, 1 student during 3/20 to 3/25/00, 1 student during 11/6 to 11/10/00, and 1 student during 1/2/01 to 1/5/01.
2. Supervise medical student Ajay Bhatnagar on research projects during his 3<sup>rd</sup> and 4<sup>th</sup> years, 2000-2002 (30 minutes a week).
3. Help supervise and teach Neurosurgery Residents in the Gamma Knife, Tuesday – Friday, 8 – 12 Noon (since 1987). This is done quarterly.
4. Supervise and teach University of Pittsburgh Radiation Oncology residents. 1985-6, and 2001-present. Attend weekly resident teaching conference.

### **CLINICAL RESEARCH PROTOCOLS**

1. A prospective randomized trial of stereotactic radiosurgery plus fractionated radiotherapy versus fractionated radiotherapy alone for the management of multiple brain metastases (University of Pittsburgh). Principal Investigators: D. Kondziolka, J.C. Flickinger, L.D. Lunsford, M. Gilbert, P. Kornblith. In-House Support. Role: co-investigator. Status: protocol completed, results published.
2. Phase III study of treating a longer root length in radiosurgery for trigeminal neuralgia (University of Pittsburgh and Mayo Clinic). J.C. Flickinger, D. Kondziolka, L.D. Lunsford, B. Pollock. In-House Support. Role: PI. Status: protocol completed, results published.

3. Radiotherapy to Prevent Fibrosis after Lumbar Laminectomy. Gerszten PC (PI), Moossy JJ, Flickinger JC, Welch WC. National Institute of Arthritis and Musculoskeletal and Skin Diseases. R21 AR47121. Role: Co-investigator (wrote and designed most of the protocol, developed the radiotherapy technique). Status: protocol closed early when FDA discontinued commercial sale of ADCON-L (used during surgery) because of contamination at manufacture, results published).
4. Phase I study of celebrex and 5-fluorouracil/radiotherapy in the pre-operative treatment of rectal cancer. Present PI: John C. Flickinger MD original PI: John Varlotto MD, Pharmacia 7/00-1/05)
5. A randomized study of Gamma Knife radiosurgery for trigeminal neuralgia with a maximum dose of 80-Gy versus 90-Gy. John C. Flickinger (PI), Co-investigators: Douglas Kondziolka, Dade Lunsford, Michael Habeck. Status: submitted to University of Pittsburgh IRB.

### **RESEARCH SUPPORT**

1. Claude Worthington Benedum Foundation. Computer modeling to predict complications from radiosurgery. 1989-1992. (\$10,000 per year for three years).
2. Radiotherapy for prevent fibrosis after lumbar laminectomy. Gerszten PC (PI), Moossy JJ, Flickinger JC, Welch WC. NIH grant #1 R21 AR47121. 2000 to 2002 \$150,000 (5% effort for JCF)
3. A randomized study of Gamma Knife radiosurgery for trigeminal neuralgia with a maximum dose of 80-Gy versus 90-Gy. John C. Flickinger, M.D. (PI), Douglas Kondziolka, M.D. (co-PI), , and L. Dade Lunsford, M.D. Elekta Instruments, Inc. 2004-5. \$35,000.
4. Phase I study of celebrex and 5-fluorouracil/radiotherapy in the pre-operative treatment of rectal cancer. Present PI: John C. Flickinger MD (Original PI: John Varlotto MD), Pharmacia 7/00-7/31/05. \$41,572. Closed Jan 2005.
5. A Randomized Study to Determine Whether Radiation Oncologists Can Improve Patient Satisfaction by Attempting to Meet Their Patients' Preferences. American Society of Therapeutic Radiology Oncology (ASTRO) Grant: How Can Radiation Oncologists Better Serve Their Patients? Ajay Bhatnagar, M.D. (PI), Flickinger JC, M.D. (co-PI). Dates: July 1, 2005 - July 1, 2006. Amount:\$30,000.

Updated: 10/10/2016