

CURRICULUM VITAE

Patrick J. Kelly, M.D., F.A.C.S.
Joseph P. Ransohoff Professor and Chairman
Department of Neurological Surgery
NYU School of Medicine
New York

Biographical and Personal Information

Date of Birth: September 19, 1941
Place of Birth: Lackawanna, New York
Citizenship: United States; Republic of Ireland

Specialty Board

American Board of Neurological Surgery, Part I 1976

Diplomate American Board of Neurological Surgery, Part II 1978

College: University of Michigan
1959-1962
Ann Arbor, Michigan

Medical: State University of New York
1962-1966
Buffalo, New York--M.D.

Internship: Rotating
1966-1967
Philadelphia Naval Hospital
Philadelphia, Pennsylvania

Residency: Northwestern University
(P.C. Bucy)
1970-1972
Chicago, Illinois

The University of Texas Medical Branch
(G.T. Tindall; R.G. Grossman)
1972-1974
Galveston, Texas

Post Graduate Training: January-April, 1977--Stereotactic Neurosurgery
Service de Neurochirurgie Fonctionnelle, Hopital St.
Anne, Paris, Professeur Jean Talairach

April-July, 1977--Stereotactic Neurosurgery
Hopital Foch, Paris; Professeur G. Guiot

July-September, 1977--Stereotactic Neurosurgery
Western General Hospital, Edinburgh,
Professor F. John Gillingham

Military Service:

Ensign (MC) USNR 1962 – 1966: 1915 and Senior
Medical Student Program

Lt (MC)USNR; Intern; USNaval Hosp#5 (Philadelphia)
1966-1967

Lt(MC)USN, Medical Department USS Pocono AGC-16
Norfolk, Virginia, 1967-1968

LCDR(MC)USN, Surgical Department,
Naval Support Activity Hospital,
Danang, South Vietnam, 1968-1969
Navy Commendation Medal; Presidential Unit Citation

LCDR(MC)USN; Head, Out-patient
Department, U.S. Naval Hospital,
Pensacola, Florida, 1969-1970

Faculty Appointments

1993 - Present Ransohoff Professor and Chairman,
Department of Neurosurgery
NYU Medical Center, New York, New York

1986 - 1993 Professor, Department of Neurosurgery, Mayo Clinic,
Mayo Medical School, Rochester, Minnesota

1984 - 1986 Associate Professor, Department of Neurosurgery,
Mayo Clinic, Mayo Medical School, Rochester,
Minnesota

1980 - 1984 Associate Professor, Department of Neurosurgery,
State University of New York at Buffalo

1978 - 1979 Associate Professor, Division of Neurosurgery,
Department of Surgery, University of Texas Medical
Branch, Galveston, Texas

1975 - 1978 Assistant Professor, University of Texas Medical Branch, Galveston, Texas

1974 - 1975 Instructor, Division of Neurosurgery, University of Texas Medical Branch, Galveston, Texas

Honors (abbreviated list)

Navy Commendation Medal 1969

American Cancer Society

American Association of Neurological Surgeons
The William P. Van Wagenen Fellowship Award, 1976

Buffalo Evening News Citizen of the Year Award

Southern Neurosurgical Society ;Research Award, 1973

State University of New York Alumni Awards 1980, 1981, 1983

Obrador Medal from Spanish Neurological Association 1996

Irish America Magazine: Top 100 Irish-Americans of 1996, 1999

The Scoville Achievement Award: World Federation of Neurosurgical Societies; Amsterdam, Netherlands. 1997

Invite' d'Honneur, Societe de Neurochirurgie Francaise, 2000

Boys and Girls Club of America Hall of Fame 2001

Sir Peter Freyer Medal, Clinical Science Institute University College Hospital, Galway, Ireland; 2001.

Olivecrona Award, Karolinska Institute, Stockholm, Sweden 2001

Richard C. Schneider Lecturer American Association of Neurological Surgeons 1996 and 2002

Spiegel & Wycis Medal for "Outstanding Contributions to the Field" awarded by the World Society of Stereotactic and Functional Neurosurgery; Rome 2005

Ellis Island Medal of Honor; May 2008

"Best Doctors" Lists

Good Housekeeping "Best Doctors in America"

American Health "The Best Doctors in America"

Profiled in: *Who's Who in Medicine and Healthcare*, (First Edition, 1996)

New York Magazine ""The Best Doctors in New York"

Woodward/White, Inc. "The Best Doctors in America"
 Castle Connolly Guide: *How to Find the Best Doctors: New York Metro Area*
 Castle Connolly: *America's Top Doctors*
 Marquis *Who's Who in America*.

Hospital Affiliations

New Bellevue Hospital (NYU), 1993-
 Tisch University Hospital (NYU), 1993-
 Veterans Administration Medical Center (NYU), 1993-
 Lenox Hill Hospital (Manhattan) 1996 -
 St. Marys Hospital, Rochester, MN 1984-1993
 Rochester Methodist Hospital, Rochester, MN 1984-1993

Grant Support

SCH Foundation: "Digital Image Processing of Stereotactic Radiographs", 1983

State University of New York: "Development of Computer-Assisted Stereotactic Surgery", 1980

Northwestern University Grants (Principal Investigator): "Electrical Stimulation of the Visual System", 1971-1972 "Cervical Nerve Roots and Coronary Blood Flow", 1971-1972

MSRDP Grants: "Study of Gliomas and Endothelia in Tissue Culture", 1973-1974 (Principal Investigator)

"Development of Stereotactic Microelectrode Recording Technique for Use in Humans", 1977-1978 (Principal Investigator)

Southern Medical Association Research Grant: Diencephalic Locomotor Center in the Cat", 1975-1976, (Principal Investigator)

NINCDS N So 7377-07 (Co-investigator): "Center for the Study of Central Nervous System Injury", 1977-1979.

Committee Responsibilities

American Association of Neurological Surgeons
 Program Committee
 Nominating Committee-

American Society for Stereotactic and Functional Neurosurgery President 1987
 Board of Directors 1980 -2003

World Society for Stereotactic and Functional Neurosurgery. Board of Directors, 1990-1994; Vice President 1996 - 2001

Congress of Neurological Surgeons
 Host Committee

Health Instrument and Device Institute

Technical Feasibility Evaluation Committee
FDA Advisory Panel on Neurological Devices, 1995 -

National Cancer Institute Task Force for Laser Surgery, 1983

State University of New York at Buffalo, School of Medicine
Faculty Council, Continuing Medical Education

University of Texas Medical School, 1975-1977
Admissions Committee

American Association of Neurological Surgeons and Congress of Neurological Surgeons
Joint Tumor Section, 1988
Executive Committee, 1990-

American Brain Tumor Association. Medical Advisory Council, 1989-

Brain Tumor Foundation
President and Founder

Mayo Clinic
Clinical Practice Committee, 1990-1992
Mayo International Activities Committee 1993-1994

Society of Neurological Surgeons.
Fellowship and Subspecialty Training Committee, 1993-
Technology Development and Training Committee, 1993-
Nominating Committee, 1995-1998
Chairman 1997-1998

The New York Academy of Medicine. The Charles A. Elsberg Fellowship Committee, 1997-1999

The Cooper Institute for Advanced Studies in Medicine and Humanities,
Board of Advisors, 1997--

Editorial Boards

Acta Neurochirurgica
Critical Reviews in Neurosurgery
Neurosurgery
Neurological Research
Surgical Neurology
Stereotactic and Functional Neurosurgery

Societies

Society of Neurological Surgeons

American Academy of Neurological Surgeons
 American Association of Neurological Surgeons
 Congress of Neurological Surgeons
 American College of Surgeons
 American Medical Association
 New York State Neurosurgical Society
 American Society for Stereotactic and Functional Neurosurgery
 World Society for Stereoecephalotomy
 Research Society of Neurological Surgeons
 Society for Neuroscience
 Societe de Neurochirurgie de Langue Franciase
 World Federation of Neurosurgical Societies

Visiting Professorships; Honorary Lectureships; Keynote Speeches, Invited Speaker, Etc.: (about 150)_(List upon request)

Articles and Book Chapters

1. Thomas W, Kurucz D, Smith R, Kelly PJ: Model of a Hospital Information System. New York University Press, 1968.
2. Kelly PJ, Dikmen FN, Tarkington J: Photically oriented conditioned reflexes elicited by electrical stimulation of the visual system in the cat. Brain Research 51:293-305, 1973.
3. Suddith RL, Kelly PJ, Hutchinson HT, Murray EA, Haber B: In Vitro demonstration of an endothelial proliferative factor produced by neural cell lines. Science 190:682-684, 1975.
4. Kelly PJ, Iwata K, McGraw CP, Tindall GT: Intracranial pressure, cerebral blood flow, and prognosis in patients with severe head injuries. In: CEREBRAL CIRCULATION AND METABOLISM, T. W. Langfitt et al (eds.), Springer-Verlag, New York, 1975, pp. 241-244.
5. Kelly PJ, Suddith RL, Hutchinson HT, Werrbach K, Haber B: Endothelial growth factor present in tissue cultures of CNS tumors. Journal of Neurosurgery 44:342-346, 1976.
6. McCormick WF, Kelly PJ, Sarwar M: Fatal paradoxical muscle embolization in traumatic carotid-cavernous fistula repair. Journal of Neurosurgery 44:513-516, 1976.
7. Levin HS, Grossman RG, Kelly PJ: Aphasic disorder in patients with closed head injury. Journal Neurology, Neurosurgery and Psychiatry 39:1062-1070, 1976.
8. Levin HS, Grossman RG, Kelly PJ: Short-term recognition memory in relation to severity of head injury. Cortex 12:175-182, 1976.

9. Kelly PJ, Peters B: The neurological manifestation of decompression accidents. Symposium on Man and Sea, Diving Physiology Society, Hawaii, 1976.
10. Grossman RG, Kelly PJ: Physiology of the basal ganglia in relation to dystonia. In: ADVANCES IN SURGERY, R. Eldridge and Fann (eds), Raven Press, New York, 1976, pp. 49-57.
11. Haber B, Suddith RL, Hutchinson HT, Kelly PJ: Endothelial proliferation fraction - EPF. In: SURFACE MEMBRANE RECEPTORS, Bradshaw and Frazier (eds.), Plenum Press, New York, 1976, pp.305-315.
12. Peters BH, Levin HS, Kelly PJ: Neurologic and psychologic manifestation of decompression illness in divers. *Neurology* 27:125-127, 1977.
13. Kelly PJ, Gorten RJ, Grossman RG, Eisenberg HM: Cerebral perfusion, vascular spasm and outcome in patients with ruptured intracranial aneurysms. *Journal of Neurosurgery* 47:44-49, 1977.
14. White JH, Kelly PJ, Dorman K: Clinical picture of atypical anorexia nervosa associated with hypothalamic tumor. *American Journal of Psychiatry* 134:323-325, 1977.
15. Sarwar M, Kelly PJ: Adult diastematomyelia. *Spine* 2:60-64, 1977.
16. Levin HS, Grossman RG, Kelly PJ: Impairment of facial recognition after closed head injuries of varying severity. *Cortex* 13:119-130, 1977.
17. Levin HS, Grossman RG, Kelly PJ: Assessment of long term memory in patients with brain damage. *Journal Consult Clin Psychol* 45:684-688, 1977.
18. Kelly PJ, Derome P, Guiot G: Thalamic spatial variability and the surgical results of lesions placed with neurophysiologic control. *Surgical Neurology* 9:307-315, 1978.
19. Kelly PJ, Olson MH, Wright AE: Stereotactic implantation of Iridium¹⁹² into CNS neoplasms. *Surgical Neurology* 10:349-354, 1978.
20. Guerra BC, Slade TL, Kelly PJ: Intracranial introduction of a nasogastric tube in a patient with a pituitary tumor. *Surgical Neurology* 12:135-136, 1979.
21. Kelly PJ, Gorten RJ, Rose JE, Grossman RG, Eisenberg HM: Radionuclide cerebral angiography and the timing of aneurysm surgery. *Neurosurgery* 5:202-207, 1979.
22. Kelly PJ, Olson MH, Wright AE, Giorgi C: CT localization and stereotactic implantation of Ir¹⁹² into CNS neoplasms. In: STEREOTACTIC CEREBRAL IRRADIATION, G. Szikla (ed.), Elsevier/North Holland Biomedical Press, Amsterdam, 1979 pp. 123-128.
23. Giorgi C, Kelly PJ: A study of the three-dimensional distribution of somatosensory evoked responses in human thalamus to aid the placement of chronic stimulating electrodes for treatment of pain. *Acta Neurochirurgica*,

- 30:279-287, 1980.
24. Kelly PJ, Gillingham FJ: The long term results of stereotactic surgery and L-dopa therapy in patients with Parkinson's Disease: A ten year follow-up study. *Journal of Neurosurgery* 53:332-337, 1980.
 25. Kelly PJ, Alker GJ Jr: A method for stereotactic laser microsurgery in the treatment of deep seated CNS neoplasms. *Applied Neurophysiology* 43:210-215, 1980.
 26. Kelly PJ: Microelectrode recording for the somatotopic placement of stereotactic thalamic lesions in the treatment of parkinsonian and cerebellar intention tremor. *Applied Neurophysiology* 43:262-266, 1980.
 27. Kelly PJ, Gorton RJ, Rose JE, Grossman RG: Cerebral infarction and ruptured intracranial aneurysms. In: *CEREBRAL VASOSPASM*, R.H. Wilkins, (ed.), Williams and Wilkins, 1980, pp. 366-371.
 28. Kelly PJ, Alker GJ Jr: A stereotactic approach to deep seated CNS neoplasms using the carbon dioxide laser. *Surgical Neurology*, 15:331-334, 1981.
 29. Kelly PJ, Alker GJ Jr: Computer assisted stereotactic laser microsurgery in the treatment of patients with deep seated CNS neoplasms. Proceedings Fiftieth Anniversary Meeting of the American Association of Neurological Surgeons. *Journal of Neurosurgery*, April 1981.
 30. Kelly PJ, Alker GJ Jr, Zoll JG: A microstereotactic approach to deep-seated arteriovenous malformation: Case report and technical note. *Surgical Neurology* 17:260-262, 1982.
 31. Kelly PJ, Alker GJ, Goerss S: Computer assisted stereotactic laser microsurgery for the treatment of intracranial neoplasms. *Neurosurgery* 10:324-331, 1982.
 32. Goerss S, Kelly PJ, Kall B, Alker GJ Jr: A computed stereotactic adaptation system. *Neurosurgery* 10:375-379, 1982.
 33. Kelly PJ: The role of radionuclide cerebral scintigraphy in the management of patients with ruptured intracranial aneurysms. In: *CLINICAL MANAGEMENT OF INTRACRANIAL ANEURYSMS*, L.N. Hopkins and D. Long (eds.), Raven Press, New York, 1982, pp. 143-148.
 34. Kelly PJ, Kall B, Goerss S, Alker GJ: Stereotactic Surgery for CNS Tumors. *CT Clinical Symposium*, Vol. 5, #5, 1982.
 35. Kelly PJ: Special Article: Future possibilities in stereotactic neurosurgery. *Surgical Neurology*, 19:4-9, 1983.
 36. Kelly PJ, Kall B, Goerss S, Alker G.J.: Precision resection of intra-axial CNS lesions by CT-based stereotactic craniotomy and computer monitored CO₂ laser. *Acta Neurochirurgica* 68:1-9, 1983.

37. Alker GJ, Kelly PJ, Kall B, Goerss S: Stereotaxic laser ablation of intracranial lesions. *American Journal of Neuroradiology*, 4:727-730, 1983.
38. Kelly PJ: Method of computer assisted stereotactic implantation of Iridium 192 into CNS neoplasms. In: STEREOTACTIC BIOPSY AND BRACHYTHERAPY OF BRAIN TUMORS, Dyck, P. (ed), University Park Press, Baltimore, Maryland, 1983, pp 173-180.
39. Kelly PJ, Kall B, Goerss S, Alker GJ: A method of CT-based stereotactic biopsy with arteriographic control. *Neurosurgery*, 14:172-177, 1984.
40. Kelly PJ, Kall B, Goerss S: Transposition of volumetric information derived from CT scanning in stereotactic space. *Surgical Neurology*, 21:465-471, 1984.
41. Kelly PJ, Kall BA, Goerss S: Computer simulation for the stereotactic placement of interstitial radionuclide sources into CT defined tumor volumes: Technical note. *Neurosurgery*, 14:442-448, 1984.
42. Kelly PJ, Kall BA, Goerss SG: Computer assisted stereotactic biopsies utilizing CT and digitized arteriographic data. *Acta Neurochirurgica*, 33:233-235, 1984.
43. Kelly PJ, Kall B, Goerss S: Stereotactic CT scanning for the biopsy of intracranial lesions and functional neurosurgery. *Appl Neurophys* 46:193-199, 1984.
44. Kelly PJ, Kall B, Goerss S: Functional stereotactic surgery utilizing CT data and computer generated stereotactic atlas. *Acta Neurochirurgica*, 33:577-583, 1984.
45. Kelly PJ, Kall B, Goerss S: Pre-operative computer determination of interstitial Iridium¹⁹² source placement into CNS tumor volumes. *Acta Neurochirurgica*, 33: 377-383, 1984.
46. Kelly PJ: Injuries of the head, neck and spine. In: THE PRACTICE OF EMERGENCY CARE. J. B. Lippincott and Co., Philadelphia, 1984.
47. Alker G, Kelly PJ: An overview of the CT-based stereotactic systems for the localization of intracranial lesions. *Computerized Radiol.* Vol. 4, No. 8:193-196, 1984.
48. Kall BA, Kelly PJ, Goerss S: Interactive stereotactic surgical system for the removal of intracranial tumors utilizing the CO₂ laser and CT-derived data base. *IEEE Transactions on Biomedical Engineering*, Volume BME 32, No. 2:112-116, 1985.
49. Kelly PJ, Earnest F, Kall BA, Goerss SJ, Scheithauer B: Surgical options for patients with deep-seated brain tumors: Computer-assisted stereotactic biopsy. *Mayo Clinic Proceedings* 60:223-229, 1985.
50. Kelly PJ: Treatment of subcortical brain tumors by computerized stereotactic surgery. *Clinical Update* 1:1-2, 1985.

51. Kall BA, Kelly PJ, Goerss S, Frieder G: Methodology and clinical experience with computed tomography and a computer-resident stereotactic atlas. *Neurosurgery* 17:400-407, 1985.
52. Kelly PJ: Computer-assisted stereotactic surgery for intra-axial brain tumors. In: GENERAL SURGERY THERAPY UPDATE SERVICE, Beahrs OH and Beart RW (eds). Harwal Publishing Company, Media PA, Volume 1, 1985.
53. Kall BA, Kelly PJ, Goerss SJ, Earnest F: Cross-Registration of points and lesion volumes from MR and CT. Proceedings of the Seventh Annual Conference of the IEEE Engineering in Medicine and Biology Society, Chicago, IL, 1985, pp 939-942.
54. Kall BA, Kelly PJ, Goerss S: Stereotactic computer-aided neurosurgery: CO₂ laser resection of CNS tumors. Proceedings of the Seventh Annual Conference of the IEEE Engineering in Medicine and Biology Society, Chicago, IL, 1985 pp 692-695.
55. Kelly PJ, Kall BA, Goerss S, Earnest F: Present and future developments of stereotactic technology. *Appl Neurophysiol* 48:1-6, 1985.
56. Goerss SJ, Kelly PJ, Kall BA: An interactive stereotactic machine. *Appl Neurophysiol* 48:85, 1985.
57. Kall BA, Kelly PJ, Goerss S, Earnest F: The computer as a stereotactic surgical instrument. *Appl Neurophysiol* 48:89-90, 1985.
58. Kelly PJ: The stereotactic CO₂ laser: Instrumentation, methodology and clinical results. In: ADVANCED INTRAOPERATIVE TECHNOLOGIES IN NEUROSURGERY. Fasano, V.A. (ed.), Springer-Verlag, New York 1986.
59. Goerss SJ, Kelly PJ, Kall BA: An interactive stereotactic machine. p. 85 IN: Advances in Stereoencephalotomy, Vol. 10, R. R. Tasker et al. (eds) Stereotactic and Functional Neurosurgery. 9th Meeting of the World Society. Toronto, ON, Canada, July 4-7, 1985. Basel, Switzerland, S. Karger, 1985. 498 p.
60. Kelly PJ, Kall BA, Goerss SJ, Earnest F IV: Present and future developments of stereotactic technology. p. 1-6 IN: Advances in Stereoencephalotomy, Vol. 10, R. R. Tasker et al. (eds) Stereotactic and Functional Neurosurgery, 9th Meeting of the World Society, Toronto, ON, Canada, July 4-7, 1985. Basel, Switzerland, S. Karger, 1985. 498 p.
61. Kelly PJ, Kall BA, Goerss S: Computer monitored stereotactic CO₂ laser system for removal of CNS intracranial tumors: technical details and clinical results. *BNI Quarterly* 1:4,46-50, 1985.
62. Kelly PJ: The stereotactic CO₂ laser: Instrumentation, methodology and clinical results. IN: Advanced Intraoperative Technologies in Neurosurgery, Fasano V. A. (ed). Springer-Verlag, Wien, New York, pp 162-174, 1986.

63. Kelly PJ, Kall BA, Goerss SJ, Cascino TL: Results of computer-assisted stereotactic laser resection of deep-seated intracranial lesions. *Mayo Clinic Proceedings* 61:20-27, 1986.
64. Kelly PJ: Applications and methodology for contemporary stereotactic surgery. *Neurological Research* 8:2-12, 1986.
65. Kelly PJ; Kall BA, Goerss SJ, Earnest F: Computer-assisted stereotaxic resection of intra-axial brain neoplasms. *Journal of Neurosurgery* 64:427-439, 1986.
66. Laws ER, Kelly PJ, Sundt, TM: Clip-grafts in microvascular decompression of the posterior fossa. *Journal of Neurosurgery* 64:679-681, 1986.
67. Ransohoff J, Kelly PJ, Laws ER, Jr: The role of intracranial surgery for the treatment of malignant gliomas. *Semin Oncol* 13:27-37, 1986.
68. Kelly PJ: Computer-assisted stereotaxis: new approaches for the management of intracranial intra-axial tumors. *Neurology* 36:535-541, 1986.
69. Kelly PJ, Kall BA, Goerss S: Computer-assisted resection of posterior fossa lesions. *Surg. Neurol.* 25:530-534, 1986.
70. Kelly PJ, Goerss SJ, Kall BA, and Kispert DB: Computed tomography-based stereotactic third ventriculostomy: technical note. *Neurosurgery* 18:791-794, 1986.
71. Kelly PJ: Technical approaches to identification and stereotactic reduction of tumor burden. Walker MD & Thomas DGT (eds), *Biology of Brain Tumour*, 1986. Martin Nijhoff Publishers, Boston, MA. pp 237-243,
72. Koivukangas J, Kelly PJ: Application of ultrasound imaging to stereotactic brain tumor surgery. *Ann Clin Res* 18:25-32, 1986.
73. Kall BA, Kelly PJ, Goerss SJ: The computer as a stereotactic surgical instrument. *Neurol Res* 8:201-208, 1986.
74. Kelly PJ, Sharbrough FW, Kall BA and Goerss SJ: MRI based computer-assisted stereotactic resection of hippocampus and amygdala in patients with temporal lobe epilepsy. *Mayo Clin Proc* 62:103-108, 1987.
75. McGirr SJ, Kelly PJ and Scheithauer BW: Stereotactic resection of juvenile pilocytic astrocytomas of the thalamus and basal ganglia. *Neurosurgery* 20:447-452, 1987.
76. Kelly PJ: Computer-assisted stereotactic laser microsurgery applied to lesions in and near the third ventricle. Apuzzo MLJ (ed)., *IN: Surgery of the Third Ventricle*, 1987. Williams and Wilkins, Baltimore, pp. 811-828, 1987.
77. Kelly PJ, Daumas-Duport C, Kispert DB, Kall BA, Scheithauer BW, and Illig JW:

- Imaging-based stereotactic serial biopsies in untreated intracranial glial neoplasms. *J. Neurosurg* 66:865-874, 1987.
78. Daumas-Duport C, Scheithauer BW and Kelly PJ: A histologic and cytologic method for the spatial definition of gliomas. *Mayo Clin Proc* 62:435-449, 1987.
 79. Kelly PJ, Daumas-Duport C, Scheithauer BW, Kall BA, Kispert DA: Stereotactic histological correlations of computed tomography and magnetic resonance imaging-defined abnormalities in patients with glial neoplasms. *Mayo Clinic Proc* 62:450-459, 1987.
 80. Kelly PJ: Computerized guidance for stereotactic treatment of brain tumors: from CT guided biopsy to computerized resection. IN: *NEUROSURGERY: State of the Art Reviews*, Hanley & Belfus, Inc., Philadelphia, PA, Vol. 1, No. 2, May, 1987. pp. 165-191.
 81. Kelly PJ, Ahlskog JE, Goerss SJ, Daube JR, Duffy JR, Kall BA: Computer assisted stereotactic VL thalamotomy with microelectrode recording control in patients with Parkinson's disease. *Mayo Clinic Proc* 62:655-664, 1987.
 82. O'Neill BP, Kelly PJ, Earle JD, Scheithauer B and Banks PM: Computer-assisted stereotactic biopsy for the diagnosis of primary central nervous system lymphoma. *Neurology* 37:1160-1164, 1987.
 83. Kelly PJ: Surgical treatment in Parkinson's disease. *Clinical Update*, Vol. 3, #4, 1987.
 84. Kall BA, Kelly PJ, Goerss SJ: Comprehensive computer-assisted data collection treatment planning and interactive surgery. *SPIE Vol. 767 Medical Imaging*, 509-514, 1987.
 85. Kelly PJ: The laser and stereotactic neurosurgery. IN: *Neurosurgery: State of the Art series "Laser Applications in Neurosurgery"*. Ed. by Tew JM and Sawaya R, Hanley & Belfus, Inc., Philadelphia, PA, Vol. 2, No. 2, November, 1987. pp. 459-474.
 86. Kelly PJ: Presidential Address: Future possibilities in stereotactic surgery: Where are we going? *Appl Neurophys* 50:1-8, 1987.
 87. Goerss SJ, Kelly PJ, Kall BA: An automated stereotactic positioning system. *Appl Neurophys*, 50:100-106, 1987.
 88. Kelly PJ, Kall BA, Goerss SJ: Computer interactive stereotactic resection of deep seated and centrally located intra-axial brain lesions. *Appl Neurophys* 50:107-113, 1987.
 89. Davis DH, Kelly PJ, Marsh WR, Kall BA, Goerss SJ: Computer-assisted stereotactic biopsy of intracranial lesions. *Appl Neurophys* 50:172-177, 1987.

90. Lanier WL, Hool GJ, Faust RJ, Cucchiara RF, Kelly PJ: Sedation for stereotactic headframe application: a randomized comparison of two techniques. *Appl Neurophys* 50:227-232, 1987.
91. Hagen NA, O'Neill BP, Kelly PJ: Computer assisted stereotactic placement of Ommaya reservoirs for delivery of chemotherapeutic agents in cancer patients. *J Neuro-Onc* 5:273-276, 1987.
92. Kelly PJ: Stereotactic technology in tumor surgery. IN: *Clinical Neurosurgery*. William & Wilkins, Baltimore, 1987. pp 215-253
93. Kelly PJ: Biopsy and treatment of subcortical intracranial neoplasms. IN: *Clinics of Diagnostic Ultrasound, Vol. 20, Controversies in Ultrasound*. McGahan JP (ed)., Churchill Livingstone, Inc., New York, NY, 1987. pp. 271-287.
94. Wilden J, Kelly PJ: CT computerized stereotactic biopsy for low density CT lesions presenting with epilepsy. *J Neurol, Neurosurg, Psych* 50:1302-1305, 1988.
95. Kelly PJ: The carbon dioxide laser in the management of glial neoplasms: conventional and stereotactic applications. IN: *Applications of Lasers in Neurosurgery*, Cerullo LJ (ed). Year Book Medical Publishers, Chicago, IL, 1988, pp. 82-99.
96. Kelly PJ: A computer monitored stereotactic CO₂ laser system for removal of CNS intra-axial tumors: technique details and clinical results. IN: *Advanced Technology in Neurosurgery*, ed. F. Pluchino and G. Broggi, Springer-Verlag, New York, 1988. pp. 114-119.
97. Kelly PJ, Kall BA, Goerss SJ: Results of CT-based computer assisted stereotactic resection of metastatic intracranial tumors. *Neurosurgery* 22:7-17, 1988.
98. Kelly PJ: Computed tomographic and magnetic resonance imaging based stereotactic resection of deep-seated intracranial tumors. IN: *Operative Neurosurgical Techniques, II Ed.*, Schmidek HH and Sweet WH (eds). Grune & Stratton, Orlando, FL, 1988. pp 481-490
99. Kelly PJ, Kall BA, Goerss SJ: Stereotactic laser resection of deep-seated tumors. IN: *Lasers in Neurosurgery*, Robertson JH and Clark WC (eds). Kluwer Academic Publishers, Boston, MA, 1988. pp. 115-121.
100. Kelly PJ, Goerss SJ and Kall BA: Modification of Todd-Wells stereotactic system for imaging data acquisition. IN: *Modern Stereotactic Surgery*, Lunsford LD (ed). Martinus Nijhoff Publ. Co., Boston, MA, 1988. pp 79-97.
101. Kelly PJ: Volumetric stereotaxis and computer-assisted stereotactic resection of subcortical lesions. IN: *Modern Stereotactic Surgery*, Lunsford LD (ed). Martinus Nijhoff Publ. Co., Boston, MA, 1988. pp 169-184.

102. Kelly PJ, Goerss SJ, Kall BA: The stereotactic retractor in computer-assisted stereotactic microsurgery: a technical note. *J. Neurosurg.* 69:301-306, 1988.
103. Earnest F, Kelly PJ, Scheithauer BW, Kall BA, Cascino TL, Ehman RL, Forbes G, Axely PA: Cerebral astrocytomas: histopathologic correlation of MR and CT contrast enhancement with stereotactic biopsy. *Radiology* 166:823-827, 1988.
104. Kelly PJ: Contemporary stereotactic ventralis lateralis thalamotomy in the treatment of Parkinsonian tremor and other movement disorders. IN: *Stereotactic Neurosurgery, Volume 2: Concepts in Neurosurgery.* Heilbrun MP (ed), (sponsored by Congress of Neurological Surgeons). Williams & Wilkins, Baltimore, 1988. pp 133-148.
105. Kelly PJ, Kall BA, Goerss SJ: Special Stereotactic Techniques: Stereotactic laser resection of deep seated tumors. IN: *Stereotactic Neurosurgery, Volume 2: Concepts in Neurosurgery.* Heilbrun MP (ed), (sponsored by Congress of Neurological Surgeons). Williams & Wilkins, Baltimore, 1988. pp 233-239.
106. Kelly PJ, Goerss SJ, Kall BA: Evolution of contemporary instrumentation for computer assisted stereotactic surgery. *Surg Neurol* 30:204-215, 1988.
107. Kelly PJ: Volumetric stereotactic surgical resection of intra-axial brain mass lesions. *Mayo Clin Proc* 63:1186-1198, 1988.
108. Daumas-Duport C, Scheithauer B, O'Fallon J, Kelly PJ: Grading of astrocytomas. A simple and reproducible method. *Cancer* 62:2152- 2165, 1988.
109. Davis DH, Kelly PJ, Marsh WR, Kall BA, Goerss SJ: Computer-assisted stereotactic biopsy of intracranial lesions in pediatric patients. *Ped Neurosci* 14:31-36, 1988
110. Abernathey CD, Camacho A, Kelly PJ: Stereotactic suboccipital transcerebellar biopsy of pontine mass lesions. *J Neurosurg* 70:195-200, 1989
111. Kelly PJ: Supratentorial glioma. IN: *Current Therapy in Neurological Surgery - 2.* Long DM (ed.). B.C. Decker, Inc., 1989. pp. 45-50.
112. Kelly PJ: Investigative protocols to treat malignant brain tumors in North America. *Neurosurgery* 24:459-472, 1989.
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