**CURRICULUM VITAE**

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Business Address: Department of Radiological Sciences

 University of California, Irvine Medical Center

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 Imaging Research Center, Taipei Medical University

 250 Wu-Xing Street, Taipei Taiwan 11031.

Date of Birth: July 11, 1941

Place of Birth: Taiwan

Citizenship: U.S.A.

Sex: Male

Marital Status: Married

Number of Children: Three

**EDUCATION:**

Undergraduate: Taipei Medical College(Supplementary) Taipei, Taiwan July 1960 -June 1962

Medical School: Taipei Medical College, Taipei, Taiwan July 1962-June 1966

Internship: Taipei Railway Hospital (Rotating) Taipei, Taiwan , July 1965- June 1966

 Residence: Veteran's General Hospital National Defense Medical College, Taipei, Taiwan July 1967 June 1969

Residence: Thomas Jefferson University, Philadelphia, Pennsylvania, September 1969-June 1972

Postgraduate: Graduate School of Radiology, Thomas Jefferson University, Philadelphia, Pennsylvania

September 1969-December 1969

Radiologic Pathology: Armed Forces Institute of Pathology , Washington, D.C., March 1972- April 1972

Harvard University School of Public Health, Program for Chiefs of Clinical Services, January 1988

Katz Business School for Chiefs and, Directors of Clinical Services, May 1996

**Fellowship:**

Fellow in Neuroradiology, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania July 1972 June 1973

Fellow in Neuroradiology\*Albany Medical Center Hospital, Albany, New York, July 1973 September 1975

Rotation Montreal Neurological Institute\*Montreal, Canada, May July 1974

**ACADEMIC APPOINTMENTS:**

Assistant Professor of Radiology, Albany Medical College Albany, New York ,September 1973 June 1977.

Associate Professor of Radiology, University of Southern California School of Medicine Los Angeles, California 1977-1980.

 Associate Professor of Radiology, University of California Irvine Medical Center Orange, California August 1980 July 1983rnia May 1979 July 1980

Professor of Radiology, University of Missouri Kansas City School of Medicine Kansas City, Missouri, July 1983 December 31, 1995

Consultant Professor, Duke University Medical Center, Durham, North Carolina, December 1992- January 1994

Professor of Radiology, MCP Hahnemann University, Philadelphia, Pennsylvania, January 1996 to August 2000

Professor of Radiology, University of California, Irvine, School of Medicine, Irvine, California,

August 2000-January 2011,Emeritus Feb 2011 to Current.

Professor of Neurological Surgery, Joint Appointment, University of California, Irvine, School of Medicine, Irvine, California. December 2002 –January 2011,Emeritus Feb of 2011 to Current.

Professor of Surgery, Joint Appointment, University of California, Irvine, School of Medicine, Irvine, California. December 2003 –January 2011, Emeritus Feb 2011 to Current.

Chair (Endowed) Professor, Taipei Medical University, March 2011 to Current

Recall Professor of Academic Research of Department of Radiology and Neurosurgery August 2014-current.

**Hospital Appointments:**

Chief of Neuroradiology, Albany Medical Center, Albany, New York, July 1973-June 1977

Attending Neuroradiology, University Southern California(USC) ,July 1977-June 1980.

Chief of Neuroradiology, UC Irvine Medical Center. July 1980-July 1983.

Chairman of Radiology, University of Missouri Kansas City School of Medicine Truman Medical Center, Kansas City, Missouri, July 1983 December 1995

Chairman of Radiology, MCP Hahnemann University, Philadelphia, Pennsylvania, Dec.1995-August 2000

Co Director, Stroke Center MCP Hahnemann, 1997 to August 2000

Chairman (Interim), Medical Staff Credentials Committee, Medical College of Pennsylvania, December 1998 to June 2000

Chairman (Hasso Brother Endowed Chair), Department of Radiological Sciences, University of California, Irvine, December 2001 to October 2008.

Neuroradi0logy Attending Staff Nov 2008 to Jan 2011.

Director of Medical Imaging Research Center, Taipei Medical University, March 2011 to Feb 2014

Consultant of Taipei Medical University Hospital 2014-current.

Consultant of Chang-Hua Christian Hospital,2014-current.

**Presentations: Invited National and International Speakers and presentation**: more than 320 occasions.

**Honors:**

Fellow, American College of Radiology, Conferred September 1994

Teaching Award, University of Southern California Medical Center, 1979

Teaching Award, University of California, Irvine Medical Center, 1981

Teaching Award, University of Missouri Kansas City School of Medicine, 1988

International Who's Who in Medicine, 1985

Distinguished International Medical Graduate, American College of International Physicians, 1994

Member, America’s Registry of Outstanding Professionals, 2002-

Named Hasso Brothers Endowed Chair in Radiological Sciences, 2003

Outstanding Alumni Award from the North American Taipei Medical University Alumni Association, June 2005

Outstanding Alumni Award from Taipei Medical University, May 2006

Physician Excellence OC from Orange County Medical Association, Jan of 2008;2010,2011.

Super Doctor from Southern California Medical association, Jan. of 2009,2012,2013

Outstanding Life Long Achievement Award by Taiwan Radiological Society on March 24,2013

Invited by the medical team to treat former president Lee in July 2013.

30 years Life Long Teaching Award from Neuroradiological Society of Taiwan March 10,2014.

Recipient of seed grant $10,000 for animal “Cerebral research venous hypertension with growth of aneurysm” in April 2015.

**Public Relations and Interviews:**

Interview with American Cablevision, “Balloon Embolization and Carotid Angioplasty”, 1985

Interview with KMBC TV 9 Local ABC Affiliate, Kansas City, Missouri, “Balloon Embolization for Carotid Cavernous Fistula,” 1985.

Interview with Cable News Network (CNN), “Percutaneous Transluminal Angioplasty of Carotid Artery,” August 7, 1985.

Live Radio Broadcast “RSNA On the Air,” “Percutaneous Transluminal Angioplasty of Subclavian Steal Syndrome,” McCormick Place, Chicago, Illinois, November 19, 1985.

Interview with Neurosurgery, Editor, Dr. Clark Watts, April, 1986.

Interview with Medical World News, “Peripheral Angioplasty Comes into Fashion,” published

December 14, 1987 issue.

Tsai FY: Interview on Brachiocephalic Arteries in Medical English Published May, 1989, Vol. 6,

 No. 5.

International Advisor for the Annual Meeting of the XV International Symposium Neuroradiolo2icurn held in Kumamoto, Japan, September 25 October 1, 1994.

Consultant for the 1995 Imaging Experts Meeting, Neuroradiology Practice Guidelines: Striving for Consensus, May 5 7, 1995, Dallas, Texas.

Curator of Fong and Jean Tsai Women Imaging Fund and Endowed Chair.2010 to Current.

**BOOK CHAPTERS:**

1. Segall HD, McComb JG, Tsai FY, Miller JH: “Neuroradiology in Head Trauma” in Diagnostic Imaging in Pediatric Trauma, eds. Gwinn JL & Stanley P. Springer Verlag Into, Berlin, Heidelberg, New York, 1980.

2. Tsai FY: “Radiology” in Skull and Facial Trauma textbook edited by Greenbaum EL. John Wiley & Sons, Inc., New York, February 1982.

3. Hieshima GB, Mehringer CM, Grinnell VS, Pribram HFW, Tsai FY: “Embolization for Tumors of the Skull Base” in Neurological Surgery of the Ear and Skull Base, edited by Brachmarm DE. Raven Press, New York, 1982.

4. Mehringer CM, Hieshima GB, Grinnell VS, Cobb SR, Zee CS, Tsai FY: “Radiologic Considerations in Neurocysticercosis.” in Neurological Surgery of the Ear and Skull Base, edited by Brachmann DE. Raven Press, New York, 1982.

5. Tsai FY: “Percutaneous Transluminal Angioplasty for the Treatment of Stroke” In Medical Therapy of Acute Stroke edited by M. Fisher Marcel Dekker, Inc., 1989.

6. Tsai FY, Higashida R: “Intravascular Therapeutic Embolization of Acute Traumatic Vascular Lesions of the Head and Neck” Chapter 20 for book Emergency Interventional Radiology edited by M.P, Neal Little, Brown and Company, 1989.

7. Tsai FY, Higashida RT: “Balloon Transluminal Angioplasty of Carotid Artery in the Head and Neck” In Prevention of Stroke edited by Norris J.W. and Hachinski VC, published by Springer Verlag PP 205 218, 1991.

8. Tsai FY, Myers TV, Higashida RT: Percutaneous Transluminal Angioplasty of Carotid and Vertebral Artery. In Angioplasty 2nd Edition by Jang CD, Loma Linda, California, March 1991.

9. Tsai FY, Alfieri KM: “Thrombolytic Treatment of Acute Stroke Secondary to Arterial or Venous Occlusion.” In Thrombolytic Therapy for Peripheral Vascular Disease, Comerota AJ, editor, J.B. Lippincott Company, 1995.

10. Higashida RT, Tsai FY: “Percutaneous Transluminal Angioplasty of the Vertebral and Basilar Artery.” In Standness VB: Vascular Diseases: Surgical and Interventional Therapy., Churchhill Livingstone, 1993.

11. Tsai FY, Myers TV, Higashida, RT: “Percutaneous Transluminal Angioplasty of the Carotid and Intracerebral Arteries.” In Strandness VB: Vascular Diseases: Surgical and Interventional Therapy, Churchill Livingstone, 1993.

12. Tsai FY, Higashida RT, Matovich V, Alfieri KM: “Acute Thrombosis of the Intracranial Dural Sinus: Direct Thrombolytic Treatment.” In Osborn AG, Eskridge JM, Harnsberger HR, Grossman RI: Yearbook of Neuroradiology. Mosby 1993.

13. Eckard DA, Lee G, Tsai FY: “The implication of stents and cyanoacrylates for the treatment of cerebrovascular disease.” In Endovascular Neurologic Intervention, Maciunas RJ, ed., an American Association of Neurological Surgeons publication, Park Ridge, IL, 1994.

14. Rumbaugh CL, Wang AM, Tsai FY: “Appropriate diagnostic modalities and their sequence for the evaluation of cerebrovascular disease.” In Cerebrovascular Disease. Igaku Shoin Medical Publishers, Inc. New York 1994.

15. Tsai FY: “Introduction to Neurointerventional. Treatment for Cerebrovascular Diseases. In Cerebrovascular Disease, Igaku Shoin Medical Publishers, Inc. New York 1994.

16. Higashida RT, Tsai FY, Halbach VV, Dowd CF, Hieshima GB: “Interventional Treatment of Intracranial Aneurysms.” In Cerebrovascular Disease. Igaku Shoin Medical Publishers, Inc. New York 1994.

17. Alfieri K, Tsai FY: “Thrombolytic Treatment in the Setting of an Acute Stroke.” In Cerebrovascular Disease, Igaku Shoin Medical Publishers, Inc. New York 1994.

18. Koenigsberg RA, Tsai FY: “Intracerebral PTA: Indications, Technique and Results.” In Vascular Intervention: A Clinical Approach, Thieme Medical and Scientific Publishers, New York 1997.

19. Hershey BL, Faro S, Koenigsberg RA, Siegal TL, Tsai FY, Mohamed F, Shaff D: “Neuroimaging.” In Textbook of Clinical Neurology, Edited by Goetz CG and Pappert EJ, Publishers WB Saunders 1998.

20. Koenisberg RA, Faro SH, Hershey BL, Siegal TL, Tsai, FY, et al. Neuroimaging. Chapter 23 In: Textbook of Clinical Neurology, 2nd edition, Goetz CG (ed). Philadelphia: Saunders, Elsevier Science, 2003, 427-463.

21. Koenisberg RA, Faro SH, Hershey BL, Siegal TL, Tsai, FY, et al. Neuroimaging. Chapter 23 In: Textbook of Clinical Neurology, 3rd edition, Goetz CG (ed). Philadelphia: Saunders, Elsevier Science, 2007 (accepted).

**BOOKS:**

1.Tsai FY, Hieshima G, Teal JS: Neuroradiology in Head Trauma, University Park Press, Baltimore, Maryland November 1983.

2. Rumbaugh CL, Wang AM, Tsai FY: Cerebrovascular Disease, Igaku Shoin Medical Publishers, Inc. New York 1994.

**Publications:**

137 scientific research papers.

1.Tsai FY, Lee KR: “Pneumopericardium and Pneumomediastinum: Rare Complications of Pneumoencephalography.” Radiology, 112:95 97,1974.

2.Tsai FY, Lisella RS, Leek F, Roach JF: Osteosclerosis of Base of Skull as a Manifestation of Tumor Invasion.” AM J Roentgenology , 124:256 264, 1975.

3.Tsai FY, Mahon J, Woodruff JR, Roach JF: “Congenital Absence of Bilateral Vertebral Arteries with Occipital Basilar Anastomosis.” Am J Roentgenol, 124: No. 2pp 281 286, 1975.

4. Tsai FY, Popp AJ, Waldman J: “Spontaneous Spinal Epidural Hematoma” Neuroradiology, 10:15 30 1975.

5. Lee KR, Lin SR, Whiteley WH, Tsai FY, Thompson NL, Suh JH: “Angiographic Findings in Recurrent Meningiomas” Radiology 119:131 139, 1976.

6. Lee KR, Whiteley WH, Schatz NJ, Ediken J, Lin SH, Tsai FY: “Juxtasellar Hyperotosis of Nonmeningiomatous Origin.” J Neurosurg, 44:571 579, 1976.

7. Lee KR, Richter J, Tsai FY: “Secondary Empty Sella Syndrome,” ACTA Radiol (Suppl): 313 326, 1976.

8. Tsai, FY, Parhad IM, Goldstein JC: “Angiographic Features of Lateral Neck Masses.” Transactions, American Academy of Ophthalmology and Otolaryngology. 84:840 1977.

9. Tsai FY, Schlip AO, Leo JS: “Angiographic Findings in Syphilitic Gumma” Neuroradiology.12:1 5, 1977

10. Tisnado J, Tsai FY Alley RD, Roach JF. “A New Roentgenographic Sign of Acute Traumatic Rupture of the Thoracic Aorta: Displacement of Nasogastric Tube to the Right.” Radiology. 125:603 608, 1977.

11. Ellison PH, Tsai FY, Largent JA: “Computed Tomography in Child Abuse and Cerebral Contusion.” J. Pediatr. 62:151 154, 1978.

12. Tsai FY, Huprich JE, Gardner FC, Segall HD, Teal JS: “Diagnostic and Prognostic Implications of Computerized Tomography of Head Trauma.” J of Computer Assisted Tomography. 2:323 33 1, July 1978.

13. Tsai, FY Huprich JE, Segall HD, Teal JS: “The Contrast Enhanced CT Scan in the Diagnosis of Isodense Subdural Hematoma.” J Neurosurg. 50:64 69, January, 1979.

14. Tsai FY, Huprich JE: “Further Experience with contrast enhanced CT in Head Trauma” Neuroradiology. 16:315 317, December, 1978.

15. Tsai FY, Huprich JE: “Further Experience with Contrast enhanced CT Scan in the Diagnosis of Isodense Subdural Hematoma.” J Neurosurg. 50:64 69, January, 1979.

16. Tsai FY, Goldstein JC, Parhad IM: “Angiographic features of Lateral Cervical Masses.” In: Yearbook of Diagnostic Radiology. 1979, Whitehouse, Wm. (Ed.): Yearbook Medical Publications, Inc., Chicago and London, 1979, pp.37 38.

17. Tisnado J. Tsai FY, Beachley MD: “An Alternative Technique for Lower Extremity Venography: A Technical Note.” Radiology. 133: 787 788, December, 1979.

18. Segall HD, McComb JG, Tsai FY Miller JH: “Neuroradiology in Head Trauma.” (Chapter 3) In: Diagnostic Imaging in Pediatric Trauma. Gwinn JL, Stanley P (Eds): Springer Verlag International, 1980, pp 8 63.

19. Tsai FY, Teal JS, Quinn MF, Itabashi HH, Huprich JE, Ahmadi J, Segall HD: “CT of Brainstem Injury.” Am J Neuroradiology. 1:23 29, Jan/Feb 1980.

20. Tsai FY, Teal JS, Quinn M, Itabashi HH, Huprich JE, Hieshima GB, Segall HD: “CT of Brainstem Injury.” Am J Roentgenology. 1980; 134:717 723.

21. Tsai FY, Teal JS, Quinn MF, Itabashi HH, Huprich JE, Hieshima GB, Segall HD: “Computer Tomography of Posterior Fossa Trauma.” J of Computer Assisted Tomography. 4(3):291 305, June, 1980.

22. Hieshima GB, Everhart FR, Mehringer CM, Tsai FY, Hasso AN, Grinnell VS, Pribram HFW: “Pre operative Embolization of Meningiomas.” Surgical Neurology. Vol. 14:119 127, August, 1980.

23. Zee CS, Segall HD, Miller C, Tsai FY, Teal JS, Hieshima GB, Ahmadi J, Halls JM: “Usual Radiological Features of Intracranial Cysticercosis.” Radiology. 1980; 137:397¬407.

24. Tsai FY Zee CS, Apthorp JS, Dixon JH: “Computed Tomography in Child Abuse Head Trauma.” J Computed Tomography, 4(4):277 286.

25. Zee CS, Tsai FY, Segal HD, Teal JS, Ahmad J: “Entrance of Metrizamide into an Intraventricular Cysticercosis cyst.” AJNR 2:189 191, March/April, 1981.

26. Zee CS, McComb JG, Segall HD, Tsai FY, Stanley P: “Lipomas of the Corpus Callosum associated with Frontal Dysraptism.” J of CAT 5(2): 201 205, April 1981.

27. Iacono RP, Apuzzo LJ, Davis RL, Tsai FY: “Multiple Meningiomas following Radiation Therapy for Medullablastoma.” J Neurosurg, 55:282 286, 1981.

28. Tsai FY: “Review of Radiology in the skull and Brain, Technical Aspects of Computerized Tomography”, ed. T.H. new and D.G. Potts, J of CT,Vol. 5 No. 4, 198 1.

29. Grinnell VS, Hieshima GB, Mehringer CM, Tsai FY Shaw, S, Irwin RJ: “Therapeutic Renal Artery Occlusion with a Detachable Balloon” J Urolo, Vol. 126:233 237, 1982.

30. Mehringer CM, Hieshima GB, Grinnell VS, Tsai FY, Pribram HFW: “Improved Localization of Carotid Cavernous fistula During angiography” AJNR 3:82 84, January/February, 1982.

31. Teal JS, Ahmadi J, Zee CS, Tsai FY Segall HD, Becker TS: “Inconsistent Venous Opacification: a Pitfall of Epidural Venography,” AJNR 3:157-161, March/April, 1982.

32. Tsai FY, Teal JS, Hieshima GB, Zee CS, Grinnell VS, Mehringer CM, Segall HD: “Computer Tomography in Acute Posterior Fossa Infarcts.” AJNR 3:149 156, March/April, 1982.

33. Ahmad J, Han JS, Teal JS, Tsai FY, Zee CS, Segall HD: “Localization of Intracranial Lesions Utilizing the coronal suture as a Landmark on Axial Computer tomography.” Surgical Neurology 17:209 212, 1982.

34. Mehringer CM, Hieshima G13, Grinnell VS, Tsai FY, Benston JR, Hasso AN, Thompson JR, Strother C, Pibram HFW: “Therapeutic Embolization for Vascular Trauma of the Head and neck.” AJNR 4;357 361, 1983.

35. Tsai FY, Hieshima GB Mehringer CM, Grinnell VS, Pribram HFW: Delayed Effects in the treatment of Carotid Cavernous Fistulas.” AJNR 4:357 361, 1983.

36. Mehringer CM, Hieshima GB, Grinnell VS, Cobb SR, Zee CS, Tsai FY: “Radiologic considerations in Neurocysticercosis.” Bulletin of Clin Neurosci 48:24 47, 1983.

37. Kerin D, Zee CS, Tsai FY, Hieshima GB, Mehringer CM, Grinnell VS, Miller R: “Transventricular Migration of Cysterical Cyst During Pneumoencephalography.” Bulletin of Clinical Neurosciences 48:24 47, 1983.

38. Tsai FY, Hieshima GB, Mehringer CM, Gallacher DJ, Lewis G, Pribram HFW: “Arterial digital Subtraction Angiography with Particulate Intravascular Embolization and Angioplasty.” Surgical Neurology Vol. 11, 104 212, 1984.

39. Tsai FY: “Air (?) in Epidural Hematomas Letter to the Editor.” J Neurosur, Vol. 6 1, August 1984.

40. Linkowski GD, Tsai FY, Recher L, Pritz M, Pribram HFW” “Solitary Osteochondroma with Spinal Cord Compression.” Surg Neurol, 23:388 390,1985.

41. Ashraf A, Shah DC, Yoon JW, Tsai FY: “Diagnostic Approach to Metastatic Disease to the Liver.” Missouri Medicine, 82:127 1390, March 1985.

42. Tsai FY: “Now PTA Dilates Blocked Carotids,” Article in the Hospital Tribune, July 10, 1985, Vol. 17, No. 7, pp3.

43. Tsai FY: “PTA has potential in treatment of carotid disease,” news article in Diagnostic Imaging, October 1985 Vol. 7:10 47.

44. Ashraf A, Reitman L, Tsai FY, Vinstein A: “Intraluminal Duodenal Diverticulum Associated with Trisomy 21 in a Two Year Old Male.: Missouri Medicine 82(12)762 763, 1985.

45. Tsai FY, Matovich V, Hieshima GB, Shah DC, Mehringer CM, Tiu GY, Higashida R, Pribram HFW: “Percutaneous Transluminal Angioplasty of Carotid Artery.” AJNR 7:349 358, March 1986.

46. Dehning DO, Tsai FY: “Ophthalmologic Findings in Carotid Cavernous Fistula and Their Treatment by Intravascular Balloon Embolization.” Missouri Medicine April, 23-28, 1986.

47. Zee CS, Hervey D, Segall HD, Ahmadi J, Tsai FY, Apuzzo M: “CT Myelography in Spinal Cysticercosis.” J of CAT, 10(2): 195 199, March/April 1986.

48. Tsai FY, Matovich VB, Hieshima GB, Higashida RT, Shah DC, Ashraf A, Pribram HFW: “The Practical Aspects of Percutaneous Transluminal Angioplasty for the Treatment of Carotid Artery Stenosis.” ACTA Radiologica (Suppl) 1986, pp, 127 130.

49. Higashida RT, Hieshima GB, Tsai FY, Halbach VV, Bentson JR: “Transluminal Angioplasty of the Subclavian and Vertebral Arteries for Vertebrobasilar Insufficiency.” ACTA Radiologica 1986, pp 124 126.

50. Tsai FY: “PTA is Promising in Helping Treat Carotid Disease,” news article in Diagnostic Imaging 10:36 41 October 1986.

51. Higashida R, Hieshima G, Tsai FY, Halbach VV: “PTA of Brachycephalic Arteries.” Diagnostic Radiology 1987.

52. Higashida RT, Hieshima GB, Tsai FY, Halbach VV, Norman d, Newton TH: “Transluminal Angioplasty of the Vertebral and Basilar artery.” AJNR 8:745 749, September/October 1987.

53. Tsai FY, Myers TV Ashraf A, Shah DC: Aberrant Placement of A Kimray Greenfield Filter in the right Atrium: Percutaneous Retrieval.” Radiology 167:423 424 1988.

54. Higashida RT, Halback VV, Hieshima GB, Tsai FY: “Percutaneous Transluminal Angioplasty of the Vertebral and Basilar Artery.” Editorial Response in American Journal of Neuroradiology 9:6097 608, 1988.

55. Higashida RT, Halbach VV, Tsai FY, Norman D. Pribram HFW, Mehringer CM, Hieshima GB: “Interventional Neurovascular Treatment of Traumatic Carotid and Vertebral Artery Lesions: Therapeutic Results in 234 cases.” AJR, 153:577 582, Sept.1989.

56. Tsai FY, Shah DC, Alfieri K, Ashraf A: “Intravascular Therapeutic Embolization for Acute Traumatic Bleeding from the Ear.” AJNR 10:S40 S41, September/October 1989.

57. Tsai FY, Wadley D, Angle JF, Alfieri K. Byars S: “The Implication of Superselective Ophthalmic angiography.” AJNR 11:1203 4,1990.

58. Sabates FN Jr., Tsai FY, Sabates NR, Blitstein B: “Transient Cranial Nerve Palsies After Cavernous Sinus Fistula Embolization.” Am J of Ophthal, Vol 111 (6):771 773, June 1991.

59. Myers TV, Tsai FY: “Monorail System for Percutaneous Repositioning of the Greenfield Vena Cava Filter.” Radiology 179(3):880 881, June 1991.

60. Peng JHF, Parker JC Jr, Tsai FY: “Immunochemical Demonstration of Alpha 3 Isozyme of the NA, K ATPASE in Human Brain.” Neuroscience Letters, 130(1991) 37 40.

61. Tsai FY, Nakashima H, Wadley D, Myers TV, Huang JY: “IVT atherectomy with suction for treatment of carotid stenosis: experimental study” Neuroradiolgy (1991) 33 [Suppl]63 65.

62. Higashida RT, Tsai FY, Halbach VV, Hieshima GB, Dowd CF, Barnwell SL: “Percutaneous transluminal angioplasty of the subclavin, vertebral and basilar arteries: technical considerations” Neuroradiology (1991) 33[Suppl] 394 396.

63 Tsai FY, Higashida R, Meoli C: “Percutaneous Transluminal Angioplasty of Extracranial and Intracranial Arterial Stenosis in the Head and Neck” Interventional Neuroradiology, Vol.2, No.2, pp.371 384, May 1992.

64. Tsai FY, Higashida RT, Matovich VB, Alfieri KM: “Acute Thrombosis of the Intracranial Dural Sinus Direct Thrombolytic Treatment.” AJNR Vol. 13 1992 1137-1141.

65. Tsai FY, Egelhoff JC Sidell G: Book Review for Pediatric MRI: The Raven MRI Teaching File, Editor: Rosalind B. Dietrich, J of Neuroimaging 1992; 1965.

66. Higashida RT, Halbach VV, Tsai FT, Dowd CF, Hieshima GB: “Intravascular Balloon Dilatation for Intracranial Arterial Vasospasm: Patient Selection, Technique, and Clinical Results. Neurosurgical Review, 1992; 15:89 95.

67. Higashida RT, Tsai GY Halbach VV, Dowd CF, Smith T. Fraser K, Hieshima FB:”Transluminal Angioplasty for Atherosclerotic Disease of the Vertebral and Basilar Arteries (Short Title: PTA of the Vertebral and Basilar Arteries) Journal of Neurosurgery, 78:192 198. February 1993.

68. Rengachary SS, Duke DA, Tsai FY, Kragel PJ: Spinal Artery Aneurysm. Neurosurgery 33, 125 130, 1993.

69. Higashida, RT, Tsai FY, Halbach VV, Dowd CF, Hieshima GB: “Cerebral Percutaneous Transluminal Angioplasty, “Heart Disease and Stroke 1993;2:497 502.

70. Smith TP, Kochi Mehringer CM, Tsai FY, Fraser KW, Dowd CF, Higashida RT, Halbach VV, Hieshima GB: Transarterial embolization of vertebral hemangioma. JVIR 1993;4:681 685.

71. Peng F, Parker JC, Grady HJ, Kung FT, Matovich V, Tsai FY: “Cytoskeletal Protein like Immunoreactivity in CSF of Pseudotumor Cerebri Patients” 1993 Ann of Neurol.

72. Yuh WTC, Simonson TM, Fisher D, Wang AM, Simon JH, Bendixen BW Tsai FY, Jinkins JR, Koci TM, Tali ET: “Mr Findings in Venous Sinus Occlusive Disease” AJNR 15:309 316, February 1994.

73. Peng JHF, Zeng Y, Tsai FY, Parker JC: “Purification and Immunochemical Studies of Human NA,K ATPASE Alpha Subunits and Formic Acid Derived Polypeptide Fragments” 1994 Preparative Biochemistry 24;(2):113 126.

74. Tsai FY, Lavin M, Matovich V, Berberian B, Aliferi K: “Percutaneous Transluminal Angioplasty Adjunct to Thrombolysis for Acute MCA Rethrombosis” AJNR 1994; 154:1823 1829.

75. Higashida RT, Tsai FY, Halbach VV, Barnwell SL, Dowd CF, Hieshima GB: “Interventional Neurovascular Techniques in the Treatment of Stroke: State of the Art Therapy,” Submitted to J of Intern Med, July 1994.

76. Higashida RT, Halbach VV, Tsai FY, Dowd CF, Hieshima, GB: “Interventional Neurovascular Techniques for Cerebral Revascularization in the Treatment of Stroke,” Am J of Roentgenol 1994; 163: 793 800.

77. Tsai FY, Wang AM, Matovich VM, Lavin M, Berberian B, Simpson TM, Yuh WTC: “Correlation of Venous Pressure with MR Brain Parenchymal Changes Associated with Acute Dural Sinus Thrombosis.” AJNR 1995; 16:1021 1029.

78. Berberian BM, Tsai FY, Segal AE, Chen C, Wang, AM: “Imaging Findings in Ganglioglioma: A Review of Eight Cases.” Proceedings of the XV Symposium Neuroradiologicum. September 25 October 1, 1994, pages 169 170, Springer Verlag, Berlin 1995.

79. Tsai FY, Wang AM, Matovich VB, Lavin M, Berberian BM, Garby KB: “Thrombolytic Treatment of Acute Vertebro Basilar Artery Occlusion.” Proceedings of the XV Symposium Neuroradiologicum. September 25 October 1, 1994, pages 466 468, Springer Verlag, Berlin 1995.

80. Tsai FY, Wang AM, Matovich VB, Lavin M, Berberian BM, Yuh WTC:”Thromboyltic Treatment for Acute Dural Sinus Thrombosis. Proceedings of the XV Symposium Neuroradiologicum. Sept 25 Oct 1, 1994, pgs 470 472, Springer Verlag, Berlin 1995.

81. Tsai FY, Berberian BM, Lavin M, Matovich VB: “Thrombolytic Treatment of Acute Middle Cerebral Artery Stroke.” Proceedings of the XV Symposium Neuroradiologicum, Sept 25 Oct 1, 1994, pgs 460 462, Springer Verlag, Berlin 1995.

82. Tsai FY, Wang AM, Matovich VB, Lavin M. Berberian BM, Yuh WTC: “Parenchymal Manifestations of the Acute Cerebrovenous Occlusion.” Proceedings of the XV Symposium Neuroradiologicum, 25 Sept I Oct 94, pages 114 116, Springer Verlag, Berlin 1995.

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84. Wang AM, Shetty A, Tsai FY: “The Value of TOF MRA in Interventional Neuro¬radiology. Proceedings of the XV Symposium Neuroradiologicum, September 25-¬October 1, 1994, pages 82 84, Springer-Verlag, Berlin 1995.

85. Wang AM, Tsai Y, Getting A, Gebara 1: “Acute Dural Venous Sinus Thrombosis in Pediatrics: Endovascular Thrombolytic Treatment.” Proceedings of the XV Symposium Neuroradiologicum, Sept 25 Oct 1, 1994, pgs 472 474, Springer Verlag, Berlin, 1995.

86. Tsai FY. Wang AM, Matovich VB Lavin M, Berberian B, Simonson TM, Yuh WTC: MR Staging of Acute dural Sinus Thrombosis: Correlation with Venous, Pressure Measurements and Implications for Treatment and Prognosis. AJNR 16:1021 1029, May 1995.

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