



STUART S. KAPLAN, M.D.

Neurological Surgery

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CURRICULUM VITAE

Fellowship

- St. Louis Children's Hospital, St. Louis, MO
 - Pediatric Fellowship, 2001 – 2002

Research Fellowships

- American Heart Association, Harvard Medical School
 - Medical Student Research Fellowship, 1992 – 1993
- Washington University
 - NIH Research Fellowship, 1998 – 2000

Residency

- Washington University Medical Center, St. Louis, MO
 - Residency, Neurological Surgery, 1995 – 2001

Internship

- Washington University Medical Center, St. Louis, MO
 - Internship, Neurological Surgery, 1994 – 1995

Medical School

- Harvard Medical School, Boston, MA
 - Doctorate of Medicine, 1994

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College

- Dartmouth College, Hanover, NH
 - B.A. 1989

Boards Certification

- American Board of Neurological Surgery: *Board Certified* in Neurological Surgery
November 2004
- National Board of Medical Examiners

Licensure

- Missouri - Active
- Ohio – Active
- Nevada – Active
- Arizona - Pending

Memberships

- American Association of Neurological Surgeons
- Congress of Neurological Surgeons
- Sections: Neurotrauma and Critical Care, Disorders of the Spine and Peripheral Nerves and Tumors.
- Society of Neuroscience

Academic Appointments

- University of Cincinnati School of Medicine, Cincinnati, OH
 - Assistant Professor of Neurosurgery, 2002 – 2004

Honors and Awards

- *Summa cum laude*
- *Phi Beta Kappa*
- High Honors in Anthropology
- Presidential Scholar
- Rufus Choate Scholar
- Academic citations in Anthropology and Physics

Abstracts – Oral Presentations

1. Kaplan SS, Breuing K, Eriksson E, Liu P, Miller DR: Controlled tissue infection in partial thickness burns – A new experimental model. Plastic Surgery Research Council, 1991.
2. Sherburn EW, Kaplan SS, Kaufman BA, Noetzel MJ, Park TS: Outcome of surgically treated birth-related brachial plexus injuries in twenty cases. Southern Neurosurgical Society, 1997.
3. Park TS, Kaplan SS, Gidday JM: Leukocyte-endothelial adherence in penumbral cortex 24 hours after permanent MCAO in mice. American Academy of Neurological Surgeons, 1998.

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4. Gidday JM, Misko TP, Kaplan SS, Gonzales ER, Perez RS, Shah AR, Salvemini D, Park TS: Peroxynitrite promotes leukocyte adherence and blood-brain barrier breakdown following cerebral ischemia. *Neuroscience*, 1998.
5. Majid A., He YY, Gidday JM, Kaplan SS, Park TS, Choi, DW, Hsu CY: Intrinsic, hemodynamic-independent differences in vulnerability to permanent focal cerebral ischemia in common mutant mouse strains. AHA Conference on Stroke and Cerebral Circulation, 1998.
6. Kaplan SS, Park TS, Gonzales ER, Gidday JM: Leukocyte adherence and vascular injury is attenuated by hydroxyethyl starch following global cerebral ischemia in newborn piglets. *Neuroscience*, 1999.
7. Kaplan SS, Park TS, Gonzales ER, Gidday JM: Hydroxyethyl starch and mannitol inhibit asphyxia-induced increases in leukocyte adherence and vascular permeability. Congress of Neurological Surgeons, 1999.
8. Kaplan SS, Gidday JM, Dugan LL, Gonzales ER, Perez RS, Park TS: Leukocyte dependent blood-brain barrier breakdown is attenuated by a novel carboxyfullerene derivative in a model of newborn hypoxic-ischemic encephalopathy in piglets. AANS/CNS Section on Pediatric Neurological Surgery, 1999.
9. Kaplan SS, Park TS, Gonzales ER, Perez RS, Shah AR, Gidday JM: Mannitol reduces post-ischemic leukocyte adherence and vascular injury in the pig cerebral microcirculation. Southern Neurosurgical Society, 2000.
10. Park TS, Kaplan SS, Gidday JM: Neutrophil elastase knockout mice exhibit reduced BBB breakdown and infarct volume following focal stroke. American Society of Pediatric Neurosurgeons, 2002.

Abstracts – Posters

1. Kaplan SS, Ogilvy CS, Crowell RM, Heros RC: Surgical results for internal carotid artery bifurcation aneurysms. Congress of Neurological Surgeons, 1993.
2. Ogilvy CS, Kaplan SS: Mild hypothermia, mannitol and induced hypertension prevent stroke in a rabbit model of focal cerebral ischemia. Congress of Neurological Surgeons, 1993.
3. Kaplan SS, Gidday JM, Gonzales ER, Perez RS, Dowling JL, Park TS: Leukocyte-endothelial adherence in penumbral cortex 24 hours after permanent MCAO in mice. *Neuroscience*, 1998.
4. Kaplan SS, Gidday JM, Gonzales ER, Perez RS, Park TS: Increased postischemic leukocyte-endothelial adherence in penumbral cortex in a model of permanent mouse MCAO. Neurotrauma Society Meeting, 1998.
5. He YY, Majid A, Choi DW, Gidday JM, Kaplan SS, Gonzales ER, Park TS, Hsu CY: Strain-related differences in vulnerability to permanent focal cerebral ischemia in C57/BL6, BALB/C, and SV129 mice. *Neuroscience*, 1998.

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6. Park TS, Gidday JM, Gonzales E, Kaplan SS: Peroxynitrite mediates the acute cerebrovascular inflammatory response following asphyxia in neonatal piglets. AANS/CNS Section on Pediatric Neurological Surgery, 1998.
7. Gidday JM, Kaplan SS, Gonzales ER, Perez RS, Shah AR, Park TS: Reduction in cerebrovascular inflammatory response following permanent MCAO in mouse by postischemic ibuprofen. *Neuroscience*, 1999.
8. Park TS, Kaplan SS, Gonzales ER, Perez RS, Shah AR, Gidday JM: Peroxynitrite mediates blood-brain barrier breakdown and venular leukostasis during reperfusion following global ischemia in piglets. *Neuroscience*, 1999.
9. Zhu Y, McMahan BK, Shah AR, Gonzales ER, Perez RS, Kaplan SS, Gidday JM: Protection from retinal ischemic injury by short-term ischemia or hypoxia: New *in vivo* mouse models of preconditioning. *Invest. Ophthalmol. Vis. Sci.*, 2000.
10. Gidday JM, Gasche Y, Shah AR, Kaplan SS, Perez RS, Shipley JM, Senior RM, Chan PH, Park TS: Reduction in cerebral vasogenic edema and infarct volume in MMP-9 null mice and following MMP-9 inhibition. *Neuroscience*, 2000.
11. Kaplan SS, Park TS, Gonzales ER, Perez RS, Shah AR, Gidday JM: Postischemic mannitol administration attenuates acute inflammation and blood-brain barrier breakdown following global ischemia in piglets. *Neuroscience*, 2000.
12. Gidday JM, Kaplan SS, Shah AR, Perez RS, Gonzales ER, Shapiro SD, Park TS: Genetic and pharmacologic evidence for neutrophil elastase mediating inflammatory brain injury following transient focal ischemia in mice. *International Society for Cerebral Blood Flow and Metabolism*, 2001.
13. Park TS, Shah AR, Perez RS, Kaplan SS, Gonzales ER, Shapiro SD, Gidday JM: Neutrophil elastase contributes to blood-brain barrier breakdown and lesion volume following transient focal ischemia in mice. *Neuroscience*, 2001.
14. Gidday JM, Gonzales ER, Perez RS, Kaplan SS, Park TS: Role of hydroxyl radical in promoting acute cerebrovascular inflammation following asphyxia in piglets. *Experimental Biology*, 2002.

Book Chapters

1. Diminick M, Kaplan S, Salmeron J: Peripheral Vascular Disease, in Lilly LS, (ed): *Pathophysiology of Heart Disease*. Philadelphia: Lea and Febiger, 1993, pp 239-254.
2. Park TS, Kaplan SS: Birth Brachial Plexus Injury. In Youmans' *Neurological Surgery*, 5th ed., (submitted).

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Original Publications (peer review)

1. Fried MP, Mallampati SR, Liu FC, Kaplan S, Caminear DS, Samonte BR: Laser resistant stainless steel endotracheal tube: experimental and clinical evaluation. *Lasers in Surgery and Medicine* 11: 301-306, 1991.
2. Kaplan SS, Ogilvy CS, Gonzalez R, Gress D, Pile-Spellman J: Extracranial vertebral artery pseudoaneurysm presenting as subarachnoid hemorrhage. *Stroke* 24: 1397-1399, 1993.
3. Kaplan SS, Ogilvy CS, Crowell RM: Incidentally discovered arteriovenous malformation of the anterior fossa dura. *Br J Neurosurg* 8: 755-759, 1994.
4. Ames A, Maynard KI, Kaplan S: Protection against CNS ischemia by temporary interruption of function-related processes of neurons. *J Cereb Blood Flow Metab* 15: 433-439, 1995.
5. Ogilvy CS, Chu D, Kaplan S: Mild hypothermia, hypertension and mannitol are protective against infarction during experimental intracranial temporary vessel occlusion. *Neurosurgery* 38: 1202-1210, 1996.
6. Ogilvy CS, Carter BS, Kaplan S, Rich C, Crowell RM: Temporary vessel occlusion for aneurysm surgery: risk factors for stroke in patients protected by induced hypothermia and hypertension and intravenous mannitol administration. *J Neurosurg* 84: 785-791, 1996.
7. Sherburn EW, Kaplan SS, Kaufman BA, Noetzel MJ, Park TS: Outcome of surgically treated birth-related brachial plexus injuries in twenty cases. *Pediatr Neurosurg* 27:19-27, 1997.
8. Kaplan SS, Wright NM, Yundt KD, Laurysen C: Adjacent fracture-dislocations of the lumbosacral spine – a case report. *Neurosurgery* 44:1134-1137, 1999.
9. Kaplan SS, Laurysen C: Cerebellar hemorrhage after evacuation of an acute supratentorial subdural hematoma – a case report. *Br J Neurosurg* 13:329-331, 1999.
10. Kaplan SS, Park TS, Gonzales ER, Gidday JM: Hydroxyethyl starch reduces leukocyte adherence and vascular injury in the newborn pig cerebral circulation after asphyxia. *Stroke* 31:2218-2223, 2000.
11. Majid A, He YY, Gidday JM, Kaplan SS, Gonzales ER, Park TS, Fenstermacher JD, Wei L, Choi DW, Hsu CY: Differences in vulnerability to permanent focal cerebral ischemia among 3 common mouse strains. *Stroke* 31:2707-2714, 2000.
12. Kaplan SS, Park TS, McKinstry RC, Fuller C, Ojemann JG: Gliomatosis Cerebri. *Pediatr Neurosurg* 36:111-112, 2002.
13. Kaplan SS, Ojemann JG, Grange DK, Fuller C, Park TS: Intracranial infantile myofibromatosis with intraparenchymal involvement. *Pediatr Neurosurg* 36:214-217, 2002.

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14. Kaplan SS, Ojemann JG, Park TS: Pediatric sylvian fissure meningioma. *Pediatr Neurosurg* 36:275-276, 2002.
15. Breuing K, Kaplan S, Liu P, Onderdonk AB, Eriksson E: Wound fluid bacterial levels exceed tissue bacterial counts in controlled porcine partial-thickness burn infections *Plast Reconstr Surg* 111:781-788, 2003.
16. Kaplan SS, Park TS, Gonzales ER, Gidday JM: Mannitol reduces postischemic cerebrovascular inflammation: Role of hydroxyl radical scavenging. *J Neurosurg* (submitted).

Continuing Education

- Center for Continuing Education in the Health Sciences, University of Pittsburgh
 - Principles and Practices of Gamma Knife Radiosurgery, January 12-16, 2004

Affiliation

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Hospital Privileges

- Sunrise
- Summerlin
- University Medical Center
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