

## James K. Liu, MD

### Bibliography

- Publications:**
1. **Liu JK**, Nwagwu C, Pikus HJ, Couldwell WT. Laparoscopic anterior lumbar interbody fusion precipitating pituitary apoplexy. **Acta Neurochir (Wien)** 143:303-307, 2001.
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  3. **Liu JK**, Das K, Weiss MH, Laws ER Jr, Couldwell WT. The history and evolution of transsphenoidal surgery. **J Neurosurg** 95:1083-1096, 2001.
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73. **Liu JK**, Gottfried ON, Salzman KL, Schmidt RH, Couldwell WT. Ruptured intracranial dermoid cysts: clinical, radiographic, and surgical features. **Neurosurgery** (accepted with revision)
74. **Liu JK**, Sayama CM, Shelton C, MacDonald JD. Transient facial nerve palsy after topical papaverine application during vestibular schwannoma surgery. **J Neurosurg** (in press)
75. **Liu JK**, Fleseriu M, Delashaw JB Jr, Ciric IS, Couldwell WT. Treatment options for Cushing's disease after failed transsphenoidal surgery. **Neurosurg Focus** (in press)

## Book

### Chapters:

1. **Liu JK**, Das K, Sonntag VKH. Cervical spine stabilization: technical aspects, in Aminoff M and Daroff RB (eds): **Encyclopedia of the Neurological Sciences**, Vol. 1, pp.659-662, Academic Press, San Diego, 2003
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### Miscellaneous:

1. **Liu JK**, Apfelbaum RI. Microvascular decompression for trigeminal neuralgia. Video presentation for 2002 Annual Meeting, Congress of Neurological Surgeons, Philadelphia, Pennsylvania

2. **Liu JK**, Apfelbaum RI. Microvascular decompression for trigeminal neuralgia. Video presentation for 2003 Annual Meeting, Congress of Neurological Surgeons, Denver, Colorado

3. Couldwell WT, **Liu JK**, Stevens E, Tenner MS. Response to a Letter to the Editor. *J Neurosurg* 102:181-182, 2005

## **Abstract**

- Presentations:**
1. **Liu JK**, Tenner MS, Oestreich HM, Couldwell WT. Reversal of radiographically impending stroke with multiple intraarterial papaverine infusions in severe diffuse cerebral vasospasm induced by subarachnoid hemorrhage. 2001 Annual Meeting, Congress of Neurological Surgeons, San Diego, California.
  2. **Liu JK**, Forman S, Benzil DL. Optic nerve sheath meningiomas: visual improvement after stereotactic radiosurgery. 2001 Annual Meeting, Congress of Neurological Surgeons, San Diego, California.
  3. **Liu JK**, Decker D, Tenner MS, Couldwell WT, Chiles BW III. Traumatic arteriovenous fistula of the posterior inferior cerebellar artery treated with endovascular coil embolization. 2002 Joint Annual Meeting of the AANS/CNS Section on Cerebrovascular Surgery & American Society of Interventional and Therapeutic Neuroradiology. Dallas, Texas.
  4. Couldwell WT, **Liu JK**. Update on intraarterial papaverine treatment for cerebral vasospasm. 2002 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah (oral presentation)
  5. **Liu JK**, Couldwell WT. Zones of approach for craniofacial resection of anterior skull base tumors. 2002 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah. (oral presentation)
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  7. **Liu JK**, Meiteles LZ, Couldwell WT. Hearing restoration with an intracanalicular vestibular schwannoma: a role for emergent surgery? 2002 Annual Meeting, American Association of Neurological Surgeons, Chicago, Illinois.
  8. **Liu JK**, Schaefer SD, Moscatello AL, Couldwell WT. Neurosurgical management of allergic fungal sinusitis. 2002 Annual Meeting, Congress of Neurological Surgeons, Philadelphia, Pennsylvania.
  9. **Liu JK**, Orlandi RR, Couldwell WT. Endoscopic corridors to lesions of the anterior skull base. 2003 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah. (oral presentation)
  10. **Liu JK**, Rosenow JM, Madan N, Schmidt RH, MacDonald JD, Stevens EA, Tenner MS, Couldwell WT. Improvement in cerebral circulation time with multiple intraarterial papaverine infusions in patients with cerebral vasospasm. 2003 Joint Annual Meeting of the AANS/CNS Section on Cerebrovascular Surgery & American Society of Interventional and Therapeutic Neuroradiology. Phoenix, Arizona.
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13. **Liu JK**, Walker ML. Posterior cervical approach for intrathecal baclofen pump insertion in children with previous spinal fusions. 2003 Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgery, Salt Lake City, Utah. (oral presentation)
14. **Liu JK**, Walker ML, Kestle JRW, Brockmeyer DL. Surgical management of aneurysmal bone cysts in the pediatric spine. 2003 Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgery, Salt Lake City, Utah.
15. **Liu JK**, Kestle JRW, Brockmeyer DL, Carey CM, Walker ML. Experience using the neodymium:yttrium-aluminum-garnet (Nd:YAG) laser in pediatric neurosurgery. 2003 Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgery, Salt Lake City, Utah. (oral presentation)
16. **Liu JK**, Sherr GT, Kestle JRW, Walker ML. Non-communicating spinal extradural arachnoid cyst causing spinal cord compression in a child. 2003 Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgery, Salt Lake City, Utah. (electronic poster)
17. **Liu JK**, Fukushima T, Al-Mefty O, Couldwell WT. The transzygomatic extended middle fossa approach for petrous-to-supraclinoid carotid artery bypass. 2004 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah (oral presentation)
18. **Liu JK**, Ragel BT, Whang K, Gillespie DL, Jensen RL, Prescott SM, Couldwell WT. R-flurbiprofen decreases cell proliferation and induces apoptosis in pituitary adenoma cells in vitro. 2004 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah (oral presentation)
19. Ragel BT, **Liu JK**, Jensen RL, Whang K, Gillespie DL, Couldwell WT. Cyclooxygenase-2 (COX-2) in meningiomas: a potential therapeutic target. 2004 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah. (oral presentation)
20. Cole CD, **Liu JK**, Schmidt MH, Couldwell WT. Hypericin-mediated photodynamic therapy in pituitary tumors: preliminary results in a rat animal model. 2004 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah (oral presentation)
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33. **Liu JK**, Ragel BT, Whang K, Gillespie DL, Jensen RL, Prescott SM, Couldwell WT. R-flurbiprofen downregulates cyclooxygenase-2 (COX-2) and induces apoptosis in pituitary adenoma cells in vitro. 2004 Annual Meeting, Congress of Neurological Surgeons, San Francisco, California.
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36. **Liu JK**, Couldwell WT. Management of pituitary apoplexy in a contemporary series in the MR imaging era: classification system and surgical results. 2005 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah. (oral presentation)
37. Amini A, **Liu JK**, Couldwell WT. Zygoma-sparing submandibular-infratemporal interpositional saphenous vein graft bypass for the treatment of a malignant skull base tumor: technical note. AANS/CNS Cerebrovascular Section Meeting 2005, New Orleans.
38. **Liu JK**, Couldwell WT. Quantification of exposure of the petrous internal carotid artery using the transzygomatic extended middle fossa approach: a cadaveric morphometric study. 16<sup>th</sup> Annual Meeting North American Skull Base Society 2005, Toronto, Ontario. (oral presentation)

39. **Liu JK**, Couldwell WT. Pituitary apoplexy in the magnetic resonance imaging era: clinical grading scale and surgical results. 16<sup>th</sup> Annual Meeting North American Skull Base Society 2005, Toronto, Ontario. (oral presentation)
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40. **Liu JK**, Abeloff D, Cohen-Gadol AA, Crosby RW, Lees GP, Couldwell WT. Max Brödel: his art, legacy, and contributions to neurosurgery through medical illustration. 2005 Annual Meeting, American Association of Neurological Surgeons, New Orleans, Louisiana. (oral presentation)
41. **Liu JK**, Couldwell WT. Clinical significance of sphenoid sinus mucosal thickening in pituitary apoplexy. 2005 Annual Meeting, Congress of Neurological Surgeons, Boston, Massachusetts.
42. **Liu JK**, Cohen-Gadol AA, Laws ER Jr, Kan P, Cole CD, Couldwell WT. Harvey Cushing and Oskar Hirsch: early forefathers of modern transsphenoidal surgery. 2005 Annual Meeting, Congress of Neurological Surgeons, Boston, Massachusetts.
43. Gottfried ON, **Liu JK**, Schmidt MH. Titanium cage assisted polymethylmethacrylate reconstruction for cervical spinal metastasis. AO ASIF Spine Tumor Symposium, Baltimore, Maryland, 2005.
44. Kan P, **Liu JK**, Hedlund G, Brockmeyer DL, Walker ML, Kestle JRW. The role of diffusion weighted imaging in pediatric brain tumors. 2006 AANS/CNS Section of Pediatric Neurosurgery, Orlando, Florida. (oral presentation)
45. Kan P, **Liu JK**, Wendland D, Shrieve D, Jensen RL. Peritumoral edema after stereotactic radiosurgery for intracranial meningiomas and molecular factors that predict its development. 2006 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah. (oral presentation)
46. **Liu JK**, Amini A, Kan P, Couldwell WT. Submandibular-infratemporal carotid artery bypass for skull base tumors and giant aneurysms. 2006 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah. (oral presentation)
47. Couldwell WT, Kan P, **Liu JK**, Apfelbaum RI. Decompression of cavernous sinus meningioma for preservation and improvement of cranial nerve function. 17<sup>th</sup> Annual Meeting North American Skull Base Society 2006, Phoenix, Arizona (oral presentation)
48. **Liu JK**, Amini A, Kan P, Couldwell WT. Submandibular-infratemporal carotid artery bypass for skull base tumors and giant aneurysms. 17<sup>th</sup> Annual Meeting North American Skull Base Society 2006, Phoenix, Arizona (oral presentation)

49. **Liu JK**, Couldwell WT. Combined microsurgical and endoscopic-assisted removal of a ruptured dermoid cyst at the skull base. 1<sup>st</sup> Annual Sugita World Educational Video Symposium, 17<sup>th</sup> Annual Meeting North American Skull Base Society 2006, Phoenix, Arizona (oral presentation)
50. Kan P, Wendland M, **Liu JK**, Shrieve D, Jensen R. Peritumoral edema after stereotactic radiosurgery for intracranial meningiomas and molecular factors that predict its development. 2006 Annual Meeting, American Association of Neurological Surgeons, San Francisco, California
51. Couldwell WT, Kan P, **Liu JK**, Apfelbaum RI. Decompression of cavernous sinus meningioma for preservation and improvement of cranial nerve function. 2006 Annual Meeting, American Association of Neurological Surgeons, San Francisco, California
52. Binning MJ, **Liu JK**, Gannon J, Osborn AG, Couldwell WT. Hemorrhagic and non-hemorrhagic Rathke's cleft cysts mimicking pituitary apoplexy. 33<sup>rd</sup> Annual Richard Lende Winter Neurosurgery Conference 2007, Snowbird, Utah (oral presentation)
53. Bishop FB, **Liu JK**, McCall TD, Brockmeyer DL. Glutaric aciduria type 1 presenting as bilateral subdural hematomas mimicking non-accidental trauma: case report and review of the literature. 33<sup>rd</sup> Annual Richard Lende Winter Neurosurgery Conference 2007, Snowbird, Utah (oral presentation)
54. Litvack ZN, **Liu JK**, Hamilton BE, Falardeau J, Guillaume DJ, Selden NR, Delashaw JB. Delayed pneumatization of the sphenoid sinus mimicking a skull base mass. 2007 Annual Meeting, American Association of Neurological Surgeons, Washington, DC
55. **Liu JK**, Sayama CM, Shelton C, MacDonald JD. Transient facial nerve palsy after intracisternal papaverine application during acoustic neuroma surgery. 2007 Annual Meeting, American Association of Neurological Surgeons, Washington, DC
56. **Liu JK**, Sayama CM, Chin SS, Couldwell WT. Extranodal NK/T-cell lymphoma presenting as a pituitary tumor: case report and clinicopathologic review of 18 patients with primary pituitary lymphoma. 2007 Annual Meeting, American Association of Neurological Surgeons, Washington, DC
57. Bishop FB, **Liu JK**, McCall TD, Brockmeyer DL. Glutaric aciduria type 1 presenting as bilateral subdural hematomas mimicking nonaccidental trauma. 2007 Annual Meeting, American Association of Neurological Surgeons, Washington, DC
58. **Liu JK**, Kim I, Hunt MA, McMenomey SO, Delashaw JB Jr. Comparison of single versus two-staged resection of large acoustic neuromas: preliminary results and facial nerve outcome. 2007 Annual Meeting, American Association of Neurological Surgeons, Washington, DC
59. **Liu JK**, Apfelbaum RI. Dandy's early observations of neurovascular compression during neurectomy for trigeminal neuralgia: a prelude to the Jannetta microvascular decompression procedure. 2007 Annual Meeting, American Association of Neurological Surgeons, Washington, DC
60. Binning MJ, **Liu JK**, Gannon J, Osborn AG, Couldwell WT. Hemorrhagic and non-hemorrhagic Rathke's cleft cysts mimicking pituitary apoplexy. 2007 Annual Meeting, American Association of Neurological Surgeons, Washington, DC
61. Litvack ZN, **Liu JK**, Hamilton BE, Falardeau J, Guillaume DJ, Selden NR, Delashaw JB. Delayed pneumatization of the sphenoid sinus mimicking a skull base mass. 2007 AANS/CNS Section on Tumors, Seventh Biennial Satellite Symposium, Washington, DC (electronic poster presentation)

62. **Liu JK**, Kim I, Hunt MA, McMenemy SO, Delashaw JB Jr. Staged resection of large acoustic neuromas: indications, surgical results, facial nerve outcomes, and complications. North American Skull Base Society 18<sup>th</sup> Annual Meeting, May 24-27, Chicago, Illinois (oral presentation)

62. **Liu JK**, Anderson GJ, McMenemy SO, Delashaw JB Jr. Zones of exposure for hypoglossal nerve lesions using an extended infratemporal fossa approach: a cadaveric morphometric analysis. North American Skull Base Society 18<sup>th</sup> Annual Meeting, May 24-27, Chicago, Illinois (oral presentation)

63. **Liu JK**, Raslan AM, Couldwell WT, Delashaw JB Jr. Incidence and management of severe intracranial hypotension from lumbar drainage after skull base surgery: intrathecal saline infusion and epidural blood patch. North American Skull Base Society 18<sup>th</sup> Annual Meeting, May 24-27, Chicago, Illinois (oral presentation)

### **Oral**

#### **Presentations:**

1. Neuroanatomy Brain Stem Review. New York Medical College, 1998
2. Crashing the Boards: Strategies for Success on the USMLE Step 1Boards. USMLE Step 1: Board Review Seminar, Sponsored by Alpha Omega Alpha, 1999
3. Acromegaly. Neurosurgery Grand Rounds, New York Medical College, Westchester Medical Center, 1999
4. The Brainstem: Cross Sections and Cranial Nerve Nuclei Made Simple. Neuroanatomy Review, New York Medical College, 1999
5. Acromegaly. Neurosurgery Grand Rounds, University of Virginia, Charlottesville, 1999
6. The Brainstem Review: Cross Sections and Cranial Nerves, Neuroanatomy Review, New York Medical College, 2000
7. Clinical Neuroanatomy Case Studies. Neuroscience Lecture, New York Medical College, 2001
8. Chiari Malformations. Neurosurgery Grand Rounds, New York Medical College, 2001
9. Neuroblastoma. Neurosurgery Grand Rounds, New York Medical College, 2001
10. Zones of Approach for Craniofacial Resection of Anterior Skull Base Tumors. Richard Lende Winter Neurosurgery Conference, Snowbird, Utah, February 6, 2002
11. Innovations in Surgery of the Anterior Skull Base, Liu JK, Couldwell WT. Neurosurgical Symposium in Honor of M. Peter Heilbrun, Snowbird, Utah, Oct 4-5, 2002
12. Extradural Temporopolar Approach to the Cavernous Sinus. Lende Winter Neurosurgery Conference-Skull Base Course, Snowbird, Utah, Jan 31, 2003
13. Anterior Skull Base Approaches: Extended Transbasal and Extended Transsphenoidal. Lende Winter Neurosurgery Conference-Skull Base Course, Snowbird, Utah, Jan 31, 2003
14. Combined Petrosal Approach for Petroclival Meningiomas. Lende Winter Neurosurgery Conference-Skull Base Course, Snowbird, Utah, Feb 1, 2003

15. Endoscopic Corridors to Lesions of the Anterior Skull Base. Liu JK, Orlandi RR, Couldwell WT. Richard Lende Winter Neurosurgery Conference, Snowbird, Utah, Feb 4, 2003
16. Oculomotion: Cranial Nerves III, IV, and VI. Neurosurgery Conference, University of Utah, July 30, 2003
17. Avenues to the Anterior Skull Base: Extended Transbasal Approach and Extended Transsphenoidal Approach. Cranial Base Conference, University of Utah, Neurosurgery Journal Club, July 30, 2003
18. Pterional and Orbitozygomatic Approaches. Cranial Base Conference, University of Utah Neurosurgery Journal Club, August 27, 2003
19. Extradural Temporopolar Approach to the Cavernous Sinus: Microsurgical Anatomy. Cranial Base Conference, University of Utah, Neurosurgery Journal Club, October 29, 2003
20. Posterior cervical approach for intrathecal baclofen pump insertion in children with previous spinal fusions. Liu JK, Walker ML. 2003 Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgery, Salt Lake City, Utah
21. Experience using the neodymium:yttrium-aluminum-garnet (Nd:YAG) laser in pediatric neurosurgery. Liu JK, Kestle JRW, Brockmeyer DL, Carey CM, Walker ML. 2003 Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgery, Salt Lake City, Utah
22. The Combined Petrosal Approach for Lesions of the Petroclival Region. Cranial Base Conference, University of Utah, Neurosurgery Journal Club, January 14, 2004
23. R-flurbiprofen decreases cell proliferation and induces apoptosis in pituitary adenoma cells in vitro. Liu JK, Ragel BT, Whang K, Gillespie DL, Jensen RL, Prescott SM, Couldwell WT. 2004 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah
24. The transzygomatic extended middle fossa approach for petrous-to-supraclinoid carotid artery bypass. Liu JK, Fukushima T, Al-Mefty O, Couldwell WT. 2004 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah
25. Posterior cervical approach for intrathecal baclofen pump insertion in children with previous spinal fusions. Liu JK, Walker ML. 2004 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah
26. The transzygomatic extended middle fossa approach for petrous-to-supraclinoid carotid artery bypass. Liu JK, Fukushima T, Al-Mefty O, Couldwell WT. 2004 Annual Meeting, Rocky Mountain Neurosurgical Society, Squaw Valley, California.
27. Combined transmastoid retro- and infralabyrinthine transjugular transcondylar transtuberular high-cervical approach for resection of glomus jugulare tumors. Liu JK, Sameshima T, Gottfried ON, Couldwell WT, Fukushima T. 2005 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah.
28. Management of pituitary apoplexy in a contemporary series in the MR imaging era: classification system and surgical results. Liu JK, Couldwell WT. 2005 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah.
29. Quantification of exposure of the petrous internal carotid artery using the transzygomatic extended middle fossa approach: a cadaveric morphometric study. Liu JK, Couldwell WT. 16<sup>th</sup> Annual Meeting North American Skull Base Society 2005, Toronto, Ontario.

30. Pituitary apoplexy in the magnetic resonance imaging era: clinical grading scale and surgical results. Liu JK, Coudwell WT. 16<sup>th</sup> Annual Meeting North American Skull Base Society 2005, Toronto, Ontario.
40. Max Brödel: his art, legacy, and contributions to neurosurgery through medical illustration. Liu JK, Abeloff D, Cohen-Gadol AA, Crosby RW, Lees GP, Couldwell WT. 2005 Annual Meeting, American Association of Neurological Surgeons, New Orleans, Louisiana.
41. Submandibular-infratemporal carotid artery bypass for skull base tumors and giant aneurysms. Liu JK, Amini A, Kan P, Couldwell WT. 2006 Richard Lende Winter Neurosurgery Conference, Snowbird, Utah.
42. Submandibular-infratemporal carotid artery bypass for skull base tumors and giant aneurysms. Liu JK, Amini A, Kan P, Couldwell WT. 17<sup>th</sup> Annual Meeting North American Skull Base Society 2006, Phoenix, Arizona.
43. Variations on the transsphenoidal approach. Liu JK, Couldwell WT. Panel Discussion on Pituitary Tumors, 17<sup>th</sup> Annual Meeting North American Skull Base Society 2006, Phoenix, Arizona.
44. Combined microsurgical and endoscopic-assisted removal of a ruptured dermoid cyst at the skull base. Liu JK, Couldwell WT. 1<sup>st</sup> Annual Sugita World Educational Video Symposium, 17<sup>th</sup> Annual Meeting North American Skull Base Society 2006, Phoenix, Arizona.
45. Middle cranial fossa: microsurgical anatomy and surgical approaches for skull base tumors and vascular lesions. Neurosurgery Conference, Oregon Health & Science University, Oct. 2, 2006, Portland, Oregon
46. Shunts and chronic intracranial hypertension. Intracranial Hypertension Research Foundation Patient Conference, Casey Eye Institute, Oregon Health & Science University, Oct. 14, 2006, Portland, Oregon
47. Transoral odontoidectomy for craniovertebral junction compression. Spine Conference, Oregon Health & Science University, Jan. 30, 2007, Portland, Oregon
48. Staged resection of large acoustic neuromas: indications, surgical results, facial nerve outcomes, and complications. Liu JK, Kim I, Hunt MA, McMenomey SO, Delashaw JB Jr. North American Skull Base Society 18<sup>th</sup> Annual Meeting, May 24-27, Chicago, Illinois
49. Zones of exposure for hypoglossal nerve lesions using an extended infratemporal fossa approach: a cadaveric morphometric analysis. Liu JK, Anderson GJ, McMenomey SO, Delashaw JB Jr. North American Skull Base Society 18<sup>th</sup> Annual Meeting, May 24-27, Chicago, Illinois
50. Incidence and management of severe intracranial hypotension from lumbar drainage after skull base surgery: intrathecal saline infusion and epidural blood patch. Liu JK, Raslan AM, Couldwell WT, Delashaw JB Jr. North American Skull Base Society 18<sup>th</sup> Annual Meeting, May 24-27, Chicago, Illinois