

Brian Keith Willis MD, FACS

Business Address: Department of Neurosurgery
Louisiana State University Health Sciences
Center- Shreveport
1501 Kings Highway, PO Box 33932
Shreveport, LA 71130-3932

BOARD CERTIFICATION

Diplomat, American Board of Neurological Surgeons 1994-Present

ACADEMIC APPOINTMENTS

Professor 2003-Present
Department of Neurosurgery
Louisiana State University Health Sciences Center
Shreveport, LA

Associate Professor 1996-2003
Department of Neurosurgery
Louisiana State University Health Sciences Center
Shreveport, LA

Assistant Professor 1992-1996
Department of Neurosurgery
Louisiana State University Health Sciences Center
Shreveport, LA

Medical Staff 1990-1992
University of New Mexico Cancer Center
Albuquerque, NM

Assistant Professor 1989-1992
Department of Neurosurgery
University of New Mexico School of Medicine
Albuquerque, NM

Medical Staff 1989-1992
University of New Mexico Hospital
Albuquerque, NM

Section of Neurosurgery
New Mexico Regional Federal Medical Center
Veterans Affairs Hospital
Albuquerque, NM
Neurosurgery Section

Chief 1989-1992

MILITARY EXPERIENCE

Rank: Commander, Medical Corp, US Navy Reserves 2003 -present
Designator: 2105; SNOBC: 15-Delta (Neurosurgery)

Billets: Neurosurgeon with NR P-NH Pensacola, Det PC 2/2003- 4/2004
Gaining Command: Fleet Hospital Dallas (FH-21)

Assistant Battalion Surgeon, 1st BN/23rd Marines 5/2004 - present
Houston, TX

Deployments: Operation Iraqi Freedom II 6/2004- 4/2005
Al Anbar Province, Iraq

Additional Military Training:

Direct Commission Officer School (DCO#03090), Class Leader 6/2003
Naval Aviation Training Station - Pensacola, FL

Combat Casualty Care Course (#014), Platoon Leader 10/2003
Camp Bullis/Camp Posey - San Antonio, TX

EDUCATION & TRAINING

Bachelor of Science (*cum laude*) 1978
Accelerated Six-Year Pre-Medical Curriculum
Louisiana State University in Shreveport, Shreveport, LA, 1978

M.D. Degree Awarded, Louisiana State University School of 1982
Medicine in Shreveport, Shreveport, LA

Residency in Neurological Surgery 1984-1989
University of Utah Medical Center
Salt Lake City, UT

Residency in General Surgery 1983-1984
Louisiana State University School of Medicine
Shreveport, LA

Internship in General Surgery 1982-1983
Louisiana State University School of Medicine
Shreveport, LA

Clinical Fellowship in Pediatric Neurosurgery October 1-November 26, 1995
Primary Children's Medical Center
Salt Lake City, UT
(Program Director: Marion Walker, MD)

PROFESSIONAL MEMBERSHIPS

American College of Surgeons 1996- present

Southern Neurosurgical Society 1996- present

Joint Section (AANS/CNS) on Tumors 1995- present

American Association of Neurological Surgeons 1995- present

Alpha Omega Alpha, Gamma Chapter 1994- present

Surgical Association of Louisiana 1993- present

Shreveport Medical Society 1993-present

Louisiana State Medical Society 1993-present

Louisiana Neurosurgical Society 1993-present

Joint Section (AANS/CNS) on Neurotrauma and Critical Care 1993-present

Congress of Neurological Surgeons 1993- present

North American Skull Base Society 1992-present

Southwest Oncology Group, Full Member 1990-present

American Medical Association 1990-present

ADMINISTRATIVE APPOINTMENTS

Clinical Representative to Faculty Senate	2003-present
Director, Senior Medical Student Neuroscience Course	1996-1998
ER Committee Bossier Medical Center Bossier City, LA	1996-present
Trauma Quality Assurance Committee Louisiana State University Health Sciences Center Shreveport, LA	1995-1996
Operative and Invasive Procedure Committee Louisiana State University Health Sciences Center Shreveport, LA	1994- present
Chairman Fourth-Year Students Promotions Committee	1993-2003
Blood Utilization Committee Louisiana State University Health Sciences Center Shreveport, LA	1992-1997
Surgical Laser Safety Committee Veterans Affairs Hospital Albuquerque, NM	1991-1992
Pharmacy and Therapeutics Committee Veterans Affairs Hospital Albuquerque, NM	1990-1992

CLINICAL PRIVILEGES

Medical Staff (Active) Willis Knighton Bossier Medical Center Bossier City, LA	1996-present
Medical Staff Surgical Service Overton Brooks VA Medical Center Shreveport, LA	1995-present

Medical Staff (Courtesy) 1994-present
Schumpert Medical Center
Shreveport, LA

Medical Staff (Consultant) 1992-present
Shriners Hospital for Crippled Children
Shreveport, LA

Medical Staff 1992-present
Willis Knighton Medical Center and Willis Knighton South
Shreveport, LA

Medical Staff 1992-present
LSU Medical Center
Shreveport, LA

AWARDS AND HONORS

1. LSUS Alumni Federation Scholarship
1976
2. T.J. Harris Scholastic Scholarship
1976
3. Accelerated Six-Year Pre-Medical curriculum
Louisiana State University in Shreveport, LA, 1976-1978
4. Alpha Omega Epsilon Honor Society
Louisiana State University in Shreveport, LA, 1978
5. Cum laude Graduate
Bachelor of Science, Louisiana State University in Shreveport, 1980
6. Resident's Award for Clinical Research in Trauma
Louisiana Chapter, American College of Surgeons, 1983
7. Elected Alumni Member
Alpha Omega Alpha, Louisiana State University School of
Medicine in Shreveport,
1994
8. Fellow

Inducted as Fellow in the American College of Surgeons, 1996

PUBLICATIONS

1. Willis BK, Heilbrun MP. Enchondroma of the Cervical Spine. *Neurosurgery* 19:437-440. 1986.
2. Willis BK, Deitch E, McDonald JC. The influence of trauma to the spleen on post-operative complications and mortality. *J Trauma* 26:1073-1076. 1986
3. Benzel EC, LeBlanc KA, Hadden TA, Willis BK. Management of a large skull defect utilizing a vascularized free omental graft. *Surg Neurol* 27:223-227. 1987.
4. Willis BK, Benzel EC. Acute post-myelographic neurological deterioration: Does the contrast agent play a role? (Letter). *J Neurosurg* 69:148. 1988.
5. Willis BK, Heilbrun MP, Sapozink MD, McDonald PR. Stereotactic interstitial brachytherapy of malignant astrocytomas with remarks on post-implantation computed tomographic appearance. *Neurosurgery* 23:348-354, 1988.
6. Willis BK. Timing of anticoagulant therapy for thromboembolic complications after craniotomy for brain tumors. (letter). *Neurosurgery* 28:929-930, 1991.
7. Benzel EC, Day WT, Willis BK, Kesterson L, Kessler CW, Modling D, Hadden TA. Civilian craniocerebral gunshot wounds. *Neurosurgery* 29:67-72, 1991.
8. Harris CP, Dias MS, Brockmeyer DL, Townsend JJ, Willis BK, Apfelbaum RI. Neurenteric cysts of the posterior fossa: Recognition, management, and embryogenesis. *Neurosurgery* 29:893-898, 1991.
9. Owen PG, Willis BK, Benzel EC. *Torulopsis glabrata* vertebral osteomyelitis. *J of Spinal Dis* 5:370-373, 1992.
10. Orrison WW, Rose DF, Hart BL, Maclin EL, Sanders JA, Willis BK, Marchand EP, Wood CC, Davis LE. Noninvasive preoperative cortical localization by magnetic source imaging. *Am J Neuroradiology* 13:1124-1128, 1992.
11. Ball PA, Marchand EP, Benzel EC, Willis BK. Stereotactic biopsy in AIDS patients (letter). *Br J Neurosurg* 6:505-506, 1992.

12. Willis BK, Greiner F, Orrison WW, Benzel EC. The incidence of vertebral artery injury after midcervical spine fracture or subluxation. *Neurosurgery* 34:435-442, 1994.
13. Rivera E, Hardjasudarma M, Willis BK, Pippins DN. Inadvertent use of ionic contrast material in myelography: case report and management guidelines. *Neurosurgery* 36:413-415, 1995.
14. Hardjasudarma M., Prieto R, Willis BK. CT of atlanto-occipital dislocation: the absent atlas sign. *Neuroradiology (Suppl)* 37:313-314, 1995.
15. Hardjasudarma M, Willis BK, Black-Payne C, Edwards R. Pediatric spinal blastomycosis: Case Report. *Neurosurgery* 37:534-536, 1995.
16. Ampil FL, Nanda A, Willis BK, Nandy I, Meehan R. Metastatic disease in the cerebellum. *Am J Clin Oncol (CCT)* 19:509-511, 1996.
17. Willis BK, Smith JL, Falkner LD, Vernon DD, Walker ML. Fatal air bag mediated craniocervical trauma in a child. *Pediatric Neurosurgery* 24:323-327, 1997.
18. Ampil FL, Nanda A, Willis BK, Apple S. Treatment in patients with glioblastoma multiforme and poor performance status: is it worthwhile? *Radiat Med* 1998 Mar-Apr;16(2):109-12.
19. Wylen EL, Willis BK. Infection rate with replacement of bone fragments in compound depressed skull fractures. *Surg Neurol* 51:452-457, 1999.
20. Nanda A, Vannemreddy PSV, Polin RS, Willis BK. Intracranial aneurysms and cocaine abuse: Analysis of prognostic indicators. *Neurosurgery* (46:1063-1069, 2000.)
21. Ampil FL, Nanda A, Willis BK. Treatment of Brain metastasis in patient with significant impairment of consciousness. *Inten Care Med* 26(4):482, 2000.
22. Yuceer N, Baskaya, MK, Smith P, Willis BK. Hematoma of the ligamentum flavum in the lumbar spine: Case Report. *Surg Neurol* 53:598-600, 2000.
23. Ampil FL, Nanda A, Willis BK. Metastatic gastrointestinal cancer compressing the spinal cord or cauda equina. (Letter to Editor.) *Am J Gastroenterol* 95:848-9, 2000.

24. Baskaya MK, Menendez JA, Willis BK. Late presentation of tethered spinal cord in a 73-year old patient. *J Am Geriatr Soc* 49:682-3, 2001.
25. Jawahar A, Smith DR, Willis BK, Ampil F, Delaune A, Datta R, Nanda A. First 100 cases of gamma knife radiosurgery in Louisiana: analysis of demographics and early results. *J La State Med Soc* 154: 31-6, 2002.
26. Jawahar A, Willis BK, Smith DR, Ampil F, Datta R, Nanda A. Gamma knife radiosurgery for brain metastases: do patients benefit from adjuvant external-beam radiotherapy? An 18-month comparative analysis. *Stereotact Funct Neurosurg* 79:262-71, 2002.
27. Nanda A, Willis BK, Vannemreddy PS. Selective intraoperative angiography in intracranial aneurysm surgery: intraoperative factors associated with aneurismal remnants and vessel occlusions. *Surg Neurol*: 58:309-14, 2002.
28. Ampil FL, Martinez RL, Jawahar A, Willis BK, Nanda A. Management of epidural cauda equine disease of prostate cancer by radiotherapy. *Radiation Med* 21: 145-149, 2003.
29. Nanda A, Vannemreddy PS, Willis BK, Baskaya MK, Jawahar A. Management of Carotid Artery Injuries. Louisiana State University Shreveport Experience. *Surg Neurol* 59: 184-90, 2003.
30. Patwardhan R, Shorter C, Willis BK, Reddy P, Smith DR, Caldito GC, Nanda A. Survival Trends in Elderly Patients with Glioblastoma Multiforme: Resective Surgery, Radiation, and Chemotherapy. *Surgical Neurol* 62:207-13; discussion 214-5, 2004.
31. Jawahar A, Matthew RE, Minagar A, Sulka D, Zhang J, Willis BK, Ampil FL, Nanda A. Gamma Knife surgery in the management of brain metastases from lung carcinoma: a retrospective analysis of survival, local control, and freedom from new brain metastases. *J Neurosurg* 100: 842-7, 2004.
32. Shaya M, Jawahar A, Caldito G, Sin A, Willis BK, Nanda A. Gamma knife radiosurgery for trigeminal neuralgia: a study of predictors of success, efficacy, safety, and outcome at LSUHSC. *Surg Neurol* 61:529-34; discussion 534-5, 2004.
33. Weilbaeher C, Patwardhan RV, Fowler M, Willis BK, Nanda A. Metastatic lesions involving the sella: report of three cases and review of the literature. *Neurol India* 52:365-8, 2004.

34. Jawahar A, Cardenas RJ, Zweig RM, Nanda A, Willis BK. A case report of complete disappearance of essential tremor after gamma knife radiosurgery. *J La State Med Soc* 156: 140-2, 2004.
35. Ampil FL, Jawahar A, Mills GM, Willis BK, Krishnamsetty RM, Nanda A. Brainstem metastasis in lung cancer patients: a treatment conundrum? Submitted to *Inten Care Med*, 2004.
36. Shaya MR, Willis BK, Nanda A. Diffuse back pain and urological symptoms: recognizing tethered cord syndrome early. *J La State Med Soc* 157:39-41, 2005.
37. Willis BK, Kumar CR, Wylen EL, Nanda A. Ventriculosubgaleal shunts for posthemorrhagic hydrocephalus in premature infants. *Pediatric Neurosurgery*, Vol. 41, No. 4, pp 178 - 185 , 2005.
38. Karim A, McCarthy K, Jawahar A, Smith DR, Willis BK, Nanda A. Differential cyclooxygenase-2 enzyme expression in radiosensitive versus radioresistant glioblastoma cell lines. *Anticancer Res* 25: 675-680, 2005.
39. Jawahar A, Shaya M, Campbell P, Ampil F, Willis BK, Smith D, Nanda A. Role of stereotactic radiosurgery as a primary treatment option in the management of newly diagnosed multiple (3-6) intracranial metastases. *Surg Neurol*. 2005 Sep;64(3):207-12.
40. Patwardhan RV, Fowler M, Willis BK, Nanda A. Idiopathic primary pan intraventricular hemorrhage in a child. *Neurol India*. 2005 Sep;53(3):373-4.
41. Nanda A, Vannemreddy P, Willis B, Kelley R. Stroke in the Young: Relationship of Active Cocaine Use with Stroke Mechanism and Outcome. Accepted for publication in *Proceedings of the XIII International Symposium on Brain Edema and Tissue Injury*, *Acta Neurochirurgica Supplement* 96, edited by Julian T., Hoff, Richard F. Keep, Guohua Xi and Ya Hua, Springer, New York.

BOOK CHAPTERS

1. Willis BK. Vertebral and Basilar Artery Injuries. *Neurovascular Surgery* Carter LP, Spetzler RF (eds). McGraw-Hill: New York, pp. 1313-1336, 1995.
2. Willis BK. Carpel Tunnel Syndrome. In *Practical Approaches to Peripheral Nerve Surgery*. Benzel EC (ed). American Association of Neurological Surgeons: Park Ridge, Illinois, 1992. Pp. 77-93.
3. Willis BK. Cubital Tunnel Syndrome. In *Practical Approaches to Peripheral Nerve Surgery*. Benzel EC (ed.) American Association of Neurological Surgeons: Park Ridge, Illinois, 1992. Pp. 94-104.
4. Willis BK. Ulnar Neuropathy at the Elbow, Medlink Publishing, July 2003-current.
5. Willis BK et al. Ulnar Neuropathy, Medlink Publishing, August 2003-current.

PRESENTATIONS

1. Willis BK, Deitch E. Influence of Trauma to the Spleen on Post-operative Complications and Mortality. (Resident Award Paper). Presented at the Louisiana Chapter of the American College of Surgeons Annual Meeting. New Orleans, LA: November, 1983.
2. Willis BK, Heilbrun MP. Unusual Spinal Column Lesions. Presented at the Congress of Neurological Surgeons post-meeting Neurosurgical Forum. Salt Lake City, UT. April 18, 1986.
3. Willis BK, Heilbrun MP. Interstitial Brachytherapy for Malignant Astrocytomas. Presented at the 22nd Annual Rocky Mountain Neurosurgical Society Meeting. Deer Valley, UT; June 4, 1987.
4. Willis BK, Reichman M, Heilbrun MP. The Value of Image-Guided Stereotaxy in the Management of Intracranial Vascular Lesions. Presented at the 23rd annual Rocky Mountain Neurosurgical Society Meeting. Lake Tahoe, NV; June, 1988.
5. Willis BK, Mayfield P, Crago CA. Experiences with Granular-form Hydroxylapatite Cranioplasty. Presented at the 16th Annual Richard Lende Winter Neurosurgery Conference. Snowbird, UT; February 10, 1990.

6. Kesterson L, Benzel EC, Marchand EP, Willis BK, Orrison WW. Magnetic resonance imaging in acute cranial and cervical spine trauma. Presented at the 42nd Annual Meeting of the Southern Neurosurgical Society. Key West, FL; March 30-April 1, 1990.
7. Clevenger R, Rodriguez DJ, Fry D, Benzel EC, Kesterson L, Marchand E, Willis BK. Obligatory negative nitrogen balance following spinal cord injury. Presented at the 42nd Annual Meeting of the Southern Neurosurgical Society. Key West, FL; March 30-April 1, 1990.
8. Hart BL, Willis BK, Dorin RI, Crooks L, Orrison WW. The imaging spectrum of pituitary apoplexy: findings, pathologic correlation, and implications for imaging. Presented at the 29th Annual Meeting of the American Society of Neuroradiology. Washington, DC; June 9-14, 1991.
9. Willis BK, Greiner F, Orrison WW, Benzel EC. The incidence of vertebra artery injury following mid-cervical spine subluxation and foramen transversarium fractures. Presented at the Annual Rocky Mountain Neurosurgical Society Meeting. Jackson Hole, Wyoming; June 23-27, 1991.
10. Orrison WW, Rose DF, Hart BL, Willis BK, Benzel EC, Davis LC. Clinical applications of magnetic source imaging. Presented at the 30th Annual Meeting of the American Society of Neuroradiology. St. Louis, MO; May 31-June 5, 1992.
11. Ball Pa, Willis BK, Benzel EC. Idiopathic syringomyelia treated by lumbo Peritoneal shunt: a preliminary report. Presented at the Annual Rocky Mountain Neurosurgical Society Meeting. Sedona, AZ; June 15-18, 1992.
12. Orrison WW, Hart BL, Lewine JD, Willis BK, Benzel EC, Wood CC, Sander JA. Magnetic source imaging in dementia. Presented at the 78th Scientific Assembly of the Radiology Society of North America. Los Angeles, CA; November 29-December 4, 1992
13. Nanda A, Willis BK, Meehan R, Person K. Surgical resection of solitary Intracranial metastases. Presented at the Poster Session of the Annual Meeting of the American Association of Neurological Surgeons. Boston, MA; April 24-29, 1993.
14. Rivera E, Hardjasudarma M, Willis BK, Pippins DV, Zweig R. Treatment Recommendations for inadvertent use of ionic contrast material in Myelography. New Orleans, LA; October 28-31, 1993.

15. Willis BK, Nanda A, Orrison WW, Benzel EC. Vertebral artery injury and trauma to the cervical spine. Presented at the Annual Meeting of the Louisiana State Neurosurgical Society. Shreveport, LA; January 22, 1994.
16. Nanda A, Willis BK. Management of arteriovenous malformations: The LSU (Shreveport) experience. Presented at the Annual Meeting of the Louisiana State Neurosurgical Society. Shreveport, LA; January 22, 1994.
17. Hardjasudarma M, Fowler M, Willis BK, Steward W, Lecky JW, McClelland R, Hollenberg. Imaging features of malignant rhabdoid tumor of the brain. Presented at the 52nd Annual Congress of the British Institute of Radiology. Harrogate, UK; May 25, 1994.
18. Hardjasudarma M. Prieto R, Willis BK. Computed tomography of atlanto-occipital dislocation: the absent atlas sign. Presented at the XV Symposium Neuroradiologicum. Kumamoto, Japan; September 25-October 1, 1994.
19. Willis BK, Nanda A, Bishop A. Early experience with a frameless interactive stereotactic system. Presented at the Mississippi and Louisiana State Neurosurgical Societies Combined Annual Meeting. New Orleans, LA; January 20-21, 1995.
20. Nanda A, Willis BK, Vincent DG. Intraoperative angiography for intracranial vascular lesions. Presented at the Mississippi and Louisiana State Neurosurgical Societies Combined Annual Meeting. New Orleans, LA; January 20-21, 1995.
21. Willis BK, Smith JL, Falkner LD, Vernon DD, Walker ML. Fatal air-bag mediated craniocervical trauma in a child. Presented at the Annual Scientific Meeting of the Rocky Mountain Neurosurgical Society. Telluride, CO; June 16-20, 1996.
22. Ampil FL, Nanda A, Willis BK. Treatment of glioblastoma multiforme - is it worthwhile? Presented at the Second Congress of the European Association for Neuro-Oncology. Wurzburg, Germany; October 6-9, 1996.
23. Williams GR, Nanda A, Willis BK, Wylen EL. Intraoperative angiography for intracranial lesions. Presented at the Annual Meeting of the Louisiana State Neurosurgical Society; New Orleans, LA ; January 17-18, 1997.
24. Williams GR, Willis BK, Wylen E, Nanda A. Intraoperative angiography for intracranial lesions. 23rd Annual Louisiana Neurosurgical Society Meeting, New Orleans, LA, Jan 17-18, 1997.

25. Wylen EL, Willis BK, Nanda A. Traumatic carotid artery injury: the 5-year experience at a Level One Trauma Center. Section on Cerebrovascular Surgery of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, Anaheim, CA, Feb 4-6, 1997.
26. Wylen EL, Akin M, Green A, Willis BK, Smith DR, Apple SL, Nanda A. Factors affecting outcomes in CNS mass infections. 47th Annual Meeting of Congress of Neurological Surgeons, New Orleans, LA, Sep 27-Oct 2, 1997.
27. Apple SL, Brantley D, Williams GR, Willis BK, Nanda A. Civilian craniocerebral gunshot wounds: The LSU-Shreveport experience ten years later. 66th Annual Meeting of the American Association of Neurological Surgeons, Philadelphia, PA, Apr 25-30, 1998.
28. Roberts RA, Polin RS, Willis BK, Nanda A. Civilian craniocerebral gunshot wounds: The LSUMC-Shreveport experience. 25th Annual Louisiana Neurosurgical Society Meeting, New Orleans, LA, Jan 15-16, 1999.
29. Menendez JA, Smith PA, Polin RS, Willis BK, Smith D, Nanda A. Analysis of the surgical results after resection of solitary metastasis to the brain. 25th Annual Louisiana Neurosurgical Society Meeting, New Orleans, LA, Jan 15-16, 1999.
30. Vannemreddy PSSV, Willis BK, Polin RS, Baskaya MK, Nanda A. Cerebral aneurysms in drug abuse: The differences from cerebral aneurysms in non-drug abuse population. 25th Annual Louisiana Neurosurgical Society Meeting, New Orleans, LA, Jan 15-16, 1999.
31. Vannemreddy PSSV, Baskaya MK, Polin RS, Willis BK, Nanda A. Traumatic injuries to the carotid artery. 10th Annual Meeting of the North American Skull Base Society, Chicago, IL May 28-31, 1999.
32. Nanda A, Vannemreddy VSSV, Polin RS, Shin PC, Baskaya MK, Willis BK. Cerebral ischemia as a prognostic indicator in the management of intracranial aneurysms. 49th Annual Meeting of the Congress of Neurological Surgeons, Boston, MA, Oct 30-Nov 4, 1999.
33. Vannemreddy VSSV, Baskaya MK, Polin RS, Willis BK, Nanda A. The influence of cocaine on intracranial aneurysms: A metanalysis of prognostic indicators. 49th Annual Meeting of the Congress of Neurological Surgeons, Boston, MA, Oct 30-Nov 4, 1999.

34. Jawahar A, Sathyanarayana S, Willis BK, Nanda A. Microsurgical excision of large vestibular schwannomas using the retrosigmoid approach: Long term results. Presented at the North American Skull Base Society Meeting at Orlando, FL March 4 March 6, 2001.
35. Jawahar A, Caldito G, Ampil F, Willis BK, Smith D, DeLaune A, Nanda A. A Prospective Randomized Clinical Trial to Assess the Efficacy of Gamma Knife Stereotactic Radiosurgery with or without External Beam Radiation in the Management of Brain Metastases.
36. Patwardhan R, Shorter C, Willis BK, Smith D, Caldito G, Reddy P, Nanda A. Survival Trends in Elderly Patients with Glioblastoma Multiforme: Resective Surgery, Radiation, and Chemotherapy. American Association of Neurological Surgeons, 2002.
37. Jawahar A, Patwardhan R, DeLaune A, Willis BK, Smith DR. Stereotactic Radiosurgery using the Leksell Gamma Knife for Treatment of Primary Cerebral Malignancies. Louisiana Association of Neurological Surgeons, 2003.
38. Sin A, Jawahar A, Willis BK, Ampil F. Gamma Knife Radiosurgery for Trigeminal Neuralgia at LSUHSC-S: Two-year Experience. Louisiana Association of Neurological Surgeons, 2003.
39. Jawahar A, DeLaune A, Willis BK, Smith DR, Ampil F. Gamma Knife Radiosurgery in the Management of Brain Metastases from Lung Carcinoma: A Retrospective Analysis of Survival, Local Control, and Freedom from New Brain Metastases. American Association of Neurological Surgeons, 2003.
40. Sin AH, Caldito G, Smith DR, Rashidi M, Willis BK, Nanda A: Predictive Factors for Dural Tears and Cerebrospinal Fluid (CSF) Leak in Lumbar Spine Surgeries. Louisiana State Neurosurgical Society meeting, Lake Charles, LA; January 24, 2004.
40. Karim A, McCarthy K, Jawahar A, Smith DR, Willis BK, Nanda A: Differential Cyclooxygenase-2 Enzyme Expression in Radiosensitive vs. Radioresistant Glioblastoma Multiforme Cell Lines. Louisiana State Neurosurgical Society meeting, Lake Charles, LA; January 24, 2004.

POSTER PRESENTATIONS

1. Vannemreddy PSSV, Willis BK, Nanda A. Transsphenoidal excision of pituitary adenomas. 10th Annual Meeting of the North American Skull Base Society, Chicago, IL May 28-31,1999.
2. Willis BK, Heilbrun MP. Interstitial Brachytherapy for Malignant Astrocytomas. Presented at The Poster Session, Annual Meeting of the American Association of Neurological Surgeons. Toronto, Ontario, Canada; April 27, 1988.
3. Benzel EC, Thammarvaram KV, Kesterson L, Willis BK. Fascia Lata for dura mater grafting. Presented at the Poster Session, Annual Meeting of the American Association of Neurosurgical Surgeons. Nashville, TN; April 28-May 3, 1990.
4. Westerson L, Benzel EC, Marchand E, Willis BK, Orrison WW. Cranial emergency room ultra low-field MRI. Presented at the Poster Session, Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN; April 28-May 3, 1990.
5. Orrison WW, Marchand E, Kesterson L, Willis BK, Benzel EC. Correlation of magnetoencephalography (MEG) with 30-dimensional acquisition and display MRI. Presented at the Poster Session, Annual Meeting of the American Association of Neurological Surgeons. Nashville, TN; April 28-May 3, 1990.
6. Willis BK, Benzel EC. The incidence of vertebral artery injury following mid-cervical spine subluxation and foramen transversarium fractures. Presented at the Poster Session, Annual Meeting of the American Association of Neurological Surgeons. New Orleans, LA; April 20-25, 1991.
7. Benzel EC, Kesterson L, Willis BK, Orrison WW, Espinosa MC. MRI, CT, and plain film comparison in acute cervical spine trauma. Awarded 1st Place at the Poster Session, 41st Annual Meeting of the Congress of Neurological Surgeons. Orlando, FL; October 26-31, 1991.
8. Nanda A, Willis BK, Meehan R, Person K. Surgical resection of solitary intracranial metastases. Presented at the Poster Session of the Annual Meeting of the American Association of Neurological Surgeons. Boston, MA; April 24-29, 1993.

9. Nanda A, Willis BK, Kumar M. Burrhole drainage of chronic subdural hematomas. Presented at the Poster Sessions of the Annual Meeting of the American Association of Neurological Surgeons. Boston, MA; April 24-29, 1993.
10. Rivera E, Hardjasudarma M, Willis BK, Pippins DV, Zweig R. Treatment Recommendations for inadvertent use of ionic contrast material in Myelography. Poster presentation of the 87th Annual Scientific Assembly of the Southern Medical Association. New Orleans, LA; October 28-31, 1993.
11. Drury T, Nanda A, Willis BK. Early surgical intervention in poor grade aneurysmal subarachnoid hemorrhage. Presented at the Annual Meeting of the Louisiana State Neurosurgical Society. Shreveport, LA; January 22, 1994.
12. Nanda A, Willis BK, Drury T. Early surgical intervention in poor grade Aneurysmal subarachnoid hemorrhage. Presented at the Poster Session of the Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA; April 11-15.
13. Brantley D, Willis BK, Nanda A. Civilian intracranial gunshot wounds: a review. Presented at the Poster Session of the 44th Annual Meeting of the Congress of Neurological Surgeons. Chicago, IL ; October 1-6, 1994.
14. Wylen EL, Willis BK, Nanda A: Infection rate with replacement of bone fragments in compound depressed skull fractures. Resident Presentation Award. And presented at the Poster Session of the 64th Annual Meeting of the American Association of Neurological Surgeons. Minneapolis, MN; April 27th-May 2, 1996.
15. Willis BK, Wylen EL, Nanda A. Use of anterior cervical locking plates for traumatic cervical spine instability. Presented at the Poster Session of the 64th Annual Meeting of the American Association of Neurological Surgeons. Minneapolis, MN; April 27-May 2, 1996.
16. Vincent DG, Mendel RC, Willis BK, Nanda A. Microsurgical and endoscopic approaches to the basilar bifurcation: comparison of the combined pterional anterior approach with the orbitozygomatic approach. Presented at the Poster Session of the 64th Annual Meeting of the American Association of Neurological Surgeons. Minneapolis, MN; April 27th - May 2, 1996.

17. Wylen EL, Akin M, Green A, Willis BK, Smith DR, Apple SL, Nanda A. Factors affecting outcome in CNS Mass Infections. Presented at the Poster Session of the 47th Annual Meeting of the Congress of Neurological Surgeons. New Orleans, LA; September 27 - October 2, 1997.
18. Nanda A, Willis BK, Wylen EL, Bhattacharjee S, Yazdani S. Surgical results after resection of solitary metastasis to the brain. 65th Annual Meeting of the American Association of Neurological Surgeons, Denver, CO, Apr 12-17, 1997.
19. Williams GR, Apple SL, Willis BK, Nanda A. Allogenic bone graft in the treatment of traumatic cervical spine injuries. 66th Annual Meeting of the American Association of Neurological Surgeons, Philadelphia, PA, Apr 25-30, 1998.
20. Reddy P, Williams GR, Willis BK, Nanda A. Routine pathological evaluation of benign herniated nucleus pulposus for cervical and lumbar decompression. 48th Annual Meeting of the Congress of Neurological Surgeons, Seattle, WA, Oct 3-8, 1998.
21. Vannemreddy PSSV, Willis BK, Nanda A. Transsphenoidal excision of Pituitary adenomas. 10th Annual Meeting of the North American Skull Base Society, Chicago, IL May 28-31,1999.
22. Jawahar A, Berk C, DeLaune A, Caldito G, Ampil F, Willis B, Smith D, Nanda A. The Assessment of Pain Control, Quality of Life, and Predictors of Success after Gamma Knife Radiosurgery for Trigeminal Neuralgia: A Single Institution Experience. Congress of Neurological Surgeons Annual Meeting. San Francisco, California, 2004.
23. Shaya M, Jawahar A, Campbell P, Ampil F, Willis BK, Smith D, Nanda A. Defining the Role of Stereotactic Radiosurgery in the Management of Newly Diagnosed, Multiple (3 or More) Intracranial Metastases: A Study of Survival Time and Control of Brain Disease. Southern Neurological Society Annual Meeting. Amelia Island, Florida, 2004.

INVITED LECTURES

1. Current Concepts in the Management of Malignant Gliomas - presented to the first state- wide Neurosurgical Case Conference, Albuquerque, NM, 1990.
2. Neuro-Oncology: The diagnosis and Treatment of Tumors of the Nervous System- presented at the 1st Annual Neurosurgical Nursing update, UNM College of Nursing, Albuquerque, NM, 1990.
3. Traumatic Intracranial Hypertension: Pathophysiology and Treatment - TRAUMA UPDATE '90, sponsored by UNM Office of Continuing Medical Education, Albuquerque, NM, 1990.
4. Ethical and Legal Issues in Neurosurgery, and Neuro-Oncology- presented at the 2nd Annual Neurosurgical Nursing Update, University Hospital and UNM College of Nursing, Albuquerque, NM, 1991.
5. Issue in the Management of Head-Injured Patients - presented to the 6th Annual Trauma Conference, Memorial Medical Center, Las Cruces , NM, 1992.
6. The Role of Carotid Endarterectomy for Carotid Artery Occlusive Disease: A State of the Union Address - presented at the Stroke Management in the 90's Symposium: Division of Neurosurgery, LSU School of Medicine, Shreveport, LA, 1992.
7. Current Investigation into the Management of Secondary Injury in Acute Brain Trauma - presented to the combined Grand Rounds of the Area Health Education Center (of Central Louisiana), St. Francis-Cabrini Hospital, and Rapides Regional Medical Center, Alexandria, LA, 1994.
8. Spina Bifida - presented at the 5th annual Regional Perinatal and Pediatric Conference; Louisiana State Nursing Association and the LSU Medical Center, Shreveport, LA, 1994.
9. Carotid Endarterectomy in the Decade of the Brain: Trials and Tribulations - presented at the 2nd annual Stroke Update; Division of Neurosurgery, LSU School of Medicine, Shreveport, LA, 1994.
10. Brain Attack! Cerebrovascular Disease and the Neuro Team - presented at the Clinical Potpourri Seminar, Nursing Continuing Education Department, LSUMC, Shreveport, LA, 1995.
11. The Spectrum of Myelodysplasia- presented at the 6th Annual Related Services Forum, by the Caddo Parish Special Education, Department of

Related Services and the Shriner's Hospital for Crippled Children, Shreveport, LA, 1996.

12. Neuro-Oncology: The Diagnosis and Management of Tumor of CNS" - presented at the 3rd Annual Medical-Surgical Nursing Conference, LSUMC Staff Development and Nursing Administration PEER Center, Shreveport, LA, 1996.
13. Spina Bifida- presented at the Pediatric Orthopedic Symposium of the Northwestern State University Division of Nursing, Shriners Hospital for Children, and Schumpert Medical Center; Shreveport, LA, 1996.
14. Neuroendoscopy: Peering into the Future (through a very small hole)- as a part of the course faculty of the Neuro Update '96, LSUMC - Shreveport CME Program; Shreveport, LA, 1996.
15. Management of Seizure Disorders in Children: A Neurosurgeon's Perspectives -presented at the Related Services Forum for the Caddo Parish Special Education Department, Shreveport, LA, 1998.
16. Craniosynostosis - Evaluation and Surgical Management - presented at the 11th Annual Conference on Women's & Children's Health, Shreveport, LA. Current Guidelines in the Management of Severe Head Injury - presented at the Northwest La. Chapter of the AACN, Bossier City, LA, 1999.
17. Craniosynostosis - Evaluation and Surgical Management - presented at the 11th Annual Conference on Women's & Children's Health, Shreveport, LA, 2000.
18. Current Guidelines in the Management of Severe Head Injury- presented to northwest LA chapter of the AACN 1999.
19. Current Strategies in the Management of Adult Malignant Brain Tumors - presented to the 3rd Annual Neuroscience Nursing Symposium, Shreveport, LA 2003.
20. OIF II: A Battalion Surgeon's Perspective - presented to the Trauma Nursing Symposium, Shreveport, LA, 2005

EDUCATIONAL LEADERSHIP

1. Infections of the Central Nervous System-presented to the Junior Class Surgical Lecture Series, University of Utah School of Medicine, Salt Lake City, UT, 1887-1989.
2. Surgical Endocrinology: Diseases Affecting the Pituitary Gland and Degenerative Diseases of the Spine - presented to the Third Year Surgical Subspecialty Symposia, University of New Mexico School of Medicine, Albuquerque, NM, 1990-1992.
3. Pituitary Apoplexy: A Review of Our Experiences and a Review of the Literature-presented to the Grand Rounds, Department of Neurology, University of New Mexico School of Medicine, Albuquerque, NM, 1991.
4. Carpal Tunnel and Cubital Tunnel Syndrome: Diagnostic and Therapeutic Considerations - presented to the Grand Rounds, Department of Neurology, University of New Mexico School of Medicine, Albuquerque, NM, 1992.
5. Surgical Management of Epilepsy. Presented to the Pediatrics Grand Rounds, Louisiana State University School of Medicine, Shreveport, LA, 1992.
6. Neuro-Oncology. Presented to the Junior Class Surgery Rotation Lecture Series and the Sophomore class Clinical Medicine course, LSU School of Medicine in Shreveport, Shreveport, LA, 1992-1994.
7. Current Investigation into the Management of Secondary Injury in Acute Brain Trauma - presented as a part of the LSUMC Emergency Medicine lecture series, Shreveport, LA, 1994.
8. Traumatic Brain Injury: A Panel Discussion of New Concepts of Management - Department of Anesthesia Grand Rounds, LSUMC School of Medicine in Shreveport, LA, 1992-1994.
9. Intracranial Pathophysiology: Presented to the faculty and house staff of the Dept. of Surgery's Surgical Basic Science Course, Shreveport, LA, 1996.
10. Neuroendoscopy: Presented at the Department of Surgery's Grand Rounds, LSU School of Medicine in Shreveport, 1997.
11. Course Director, Clinical Neurosurgery course, 4th Year Medical Student Neuroscience Rotation (required curricular course); LSU School of Medicine in Shreveport, 1997-1998.

12. Evaluation and Management of Craniostomosis- presented at Grand Rounds, LSUHSC Dept. of Neurosurgery, with Dr. G. E. Ghali (Chairman, Division of OMF Surgery).

COMMUNITY OUTREACH

1. Correspondence, "Let's not forget our primary calling." Correspondence in *AMERICAN MEDICAL NEWS*. March 2, 1992
2. Interview, "Brain Tumors" - CITILINE (505) 843-6060; Health and Safety Informational Services of UNM School of Medicine and University Physician Associates; 1992.
3. Television Interview – Children' Medical Network Telethon, for Children's Hospital of New Mexico; May 30-31, 1992.
4. Panelist, Meehan R. Television panel discussion on "Brain Tumors". Louisiana Public Broadcasting; October 8, 1994.
5. Newspaper Interview "Surgeon warns of dangers of passenger side airbags." Interview for Newspaper article appearing in *The Shreveport Times*; September, 1996.
6. Newspaper Article "Neurosurgeon Dr. Brian Willis Performs Advanced Back Surgery at WK Bossier Health Center." *MD News North Louisiana* Oct. 1998:17.

CLINICAL RESEARCH TRIALS

1. Investigator
Randomized, prospective trial comparing safety and efficacy of percutaneous twist-drill craniostomy to traditional burrhole evacuation of chronic subdural hematomas. University of New Mexico Hospital, New Mexico Regional Federal Medical Center, 1990.
2. Investigator
Open-label multi-center clinical trial of Gliadel
For patients with recurrent malignant glioma. IRB Project #97-418; initiation date 1-27-97; LSUMC Medical Center, Shreveport, LA, 1997.

3. Principal Investigator
Glioma Outcomes Project: 1998-2001
Contribute to database of outcomes for patients who undergo surgery for glioma to better understand the relationship of practices in the care of these patients on clinical outcomes. Key objectives of the project are to identify opportunities to improve quality of care for patients with glioma, describe diagnostic and treatment strategies and patient outcomes, provide physicians with data to evaluate and improve their practices, publish objective data on temporal trends and regional differences in the care of patients with glioma, and develop hypotheses for future clinical trials. 1998.
4. Co-Investigator
A prospective randomized double-blind, parallel group, sequential design, multicenter study to determine the safety and efficacy of intravenously administered SDZ EAA 494 in hospitalized patients with severe traumatic brain injury. October 31, 1997
5. Co-Investigator
A randomized, double-blind, placebo-controlled study of intravenous CI-1009 in patients with severe head injury (protocol 1009-002). March 31, 1997
6. Co-Investigator
Devco/Bayer Traumatic Brain Injury Trial
Randomized, double-blind, placebo-controlled global trial to evaluate the efficacy, safety and pharmacokinetic/pharmacodynamic effects of a targeted exposure of intravenous repinotan (BAY x 23702) in patients with traumatic brain injury (TBI), 2001.
7. Co-Investigator
SEAL Subarachnoid Hemorrhage Trial
Microsurgery versus endovascular therapy for aneurysmal subarachnoid hemorrhage trial, 2001.
8. Co-Investigator
GLIADEL multicenter trial for glioma, 1997-1998
Open-label, multi-center, clinical trial of Gliadel for patients with recurrent malignant glioma.
9. American Brain Injury Consortium- PHARMOS. Efficacy and Safety Evaluation of a Single Intravenous Dose of Dexanabinol in Patients Suffering from Severe Traumatic Brain Injury.
2/03 to 2/04

10. Ortho-Biotech Parexel: An Open-Label, Randomized, Parallel-Group Study To Confirm The Safety And Efficacy Of Procrit® (Epoetin Alfa) Administered Perioperatively Versus The Standard Of Care In Blood Conservation In Subjects Undergoing Major Elective Spinal Surgery
6/03 to 6/05

RESEARCH GRANTS

1. Sterling-Winthrop Surgery Research Grant
To Louisiana State University Medical School. Multicenter six month follow-up evaluation of outcome, return to work, and health care utilization in subjects receiving Polyethylene Glycol - Superoxide Dismutase (PEG-SOD) following severe closed head injury. LSU Medical Center, Shreveport, LA 1993. Clinical investigation of the *Neurostation* for image-guided stereotactic surgery. LSU Medical Center, Shreveport, LA, 1993.
2. Upjohn Co. Research Grant
To Louisiana State University Medical Center. Efficacy and safety (Phase III) study of 15mg/kg/day tirilazad mesylate in North American women with subarachnoid hemorrhage. IND No. 36033; initiation date July 15, 1995. LSU Medical Center, Shreveport, LA, 1995.
3. PHARMACO International grant
To Louisiana State University Medical Center. SDZ EZZ 494 I.V. solution for severe traumatic injury (Phase II III prospective, double-blind, multicenter study to determine safety and efficacy of SDZ EAA 494 in patients with severe traumatic brain injury). IND No. 97-434; initiation date: 2- 26. 1997.

CONTINUING MEDICAL EDUCATION

2004

Clinical Research Workshop
LSUSHC Dept of Medicine, Div of Research March 4, 2003

Wilderness Medicine Course
Wilderness Medicine Society, Big Sky, Montana February 7-11, 2004

2003

Medtronic Hands-On Spine Instrumentation Course
LSUHSC, WKMC - Shreveport, LA February 11, 2003

BLS recertification, LSUHSC July 15, 2003

ATLS recertification, Combat Casualty Care Course,
Camp Bullis, Texas October 19, 2003

2001

Treatment of Cerebral Palsy in 2000
LSUHSC Neurology January 21, 2001

2000

Biological Behavior and Origin of Central Neurocytoma
LSUHSC Neurology March 8, 2000

Principles and Practices of Gamma Knife Radiosurgery
Pittsburgh, PA May, 2000

Congress of Neurological Surgeons Annual Meeting 2000

Management of Craniovertebral Instability December 6, 2000

IRB Regulations Governing the Consent Process August 23, 2000

Acoustic Neuroma: Development of Treatment Paradigms April 26, 2000

1999

Codman-Hakim Programmable Valve Course
Cincinnati, OH 1999

Utah Association of Neurological Surgeons Annual Meeting 1999

Advances in Spine Management LSUHSC-S	October 2, 1999
Hot Topics in Neurosurgical Trauma	December 8, 1999
Intracranial Stenting	June 30, 1999
Interventional Neuroradiologic Methods for Treating Cerebral Vasospasm	January 27, 1999
Risks and Efficacy of for Surgery and Endovascular Management of Intracranial Aneurysms	January 13, 1999
Anterior Skull Base Approaches	November 12, 1998
Stroke Update 1998	October 8, 1998
Therapeutic Hypothermia for Brain	July 16, 1998
Endoscopic Pituitary Surgery	March 30, 1998
Multidisciplinary Management of Patients with Cavernous Sinus Aneurysms	January 22, 1998
Principles and Practice of Gamma Knife Radiosurgery University of Pittsburgh, Pittsburgh, PA	May 15-19 2000
Codman - Hakim Programmable Valve Course Cincinnati, OH	1999
Hands-On Workshop and Symposium for MED Microendoscopic Discectomy Medical Education Research Institute Memphis, TN	1997
Spine Surgery Hands-On A Comprehensive Approach for Neurosurgeons (AANS Professional Development Course) Albuquerque, NM	1997

CNS Practical Clinic Carotid Surgery Hands-On Workshop - Diagnostics and Techniques Montreal, Canada	1996
Neurosurgical Critical Care course (AANS) Snowbird, UT	1996
Minimally Invasive Neurosurgery Neuroendoscopy Hands-On (AANS Professional Development Course) Boston, MA	1994
AANS Practical Clinic Neurosurgical Critical Care Monitoring Devices and Techniques Chicago, IL	1993
Review and Update in Neurobiology for Neurosurgeons Marine Biological Laboratory Woods Hole, MA	1986
Midas Rex Psychomotor Institute Hands-On Workshop Park City, UT	1985

EDUCATIONAL & RESEARCH INTERESTS

Pediatric Neurosurgery
Spina Bifida
Hydrocephalus

Last revision: Jan 4, 2006