

CURRICULUM VITAE

ALLEN KENT SILLS, JR., M.D., F.A.C.S.
Professor of
Neurological Surgery and Orthopaedic Surgery
Vanderbilt University Medical Center

Office Address: Vanderbilt University Medical Center
Department of Neurological Surgery
2009 Mallory Lane, Suite 230
Franklin, TN 37067

Patients/Clinic Phone: (615) 778-2265
Fax: (615) 778-2266

Email: allen.sills@vanderbilt.edu
Academic Office Phone: (615) 875-7054

EDUCATION

1979-1982 Starkville High School
Starkville, Mississippi
Valedictorian

1982-1986 Mississippi State University
Mississippi State, Mississippi
Degree: Bachelor of Science in Engineering
Major: Biological Engineering
Summa Cum Laude

1986-1990 Johns Hopkins University School of Medicine
Baltimore, Maryland
Degree: Doctor of Medicine
Alpha Omega Alpha

1990-1991 Halsted Internship in General Surgery
Johns Hopkins Hospital
Baltimore, Maryland

July 1991 -
February 1994 Assistant Resident, Department of Neurosurgery
Johns Hopkins Hospital
Baltimore, Maryland

February 1994 -
June 1994 Chief Resident, Department of Neurosurgery
Johns Hopkins Bayview Medical Center
Baltimore, Maryland

July 1994 -
June 1996 Neuro-Oncology Fellow
Funded by NIH Fellowship CA 09574-06
Hunterian Neurosurgical Laboratory
Johns Hopkins University School of Medicine
Baltimore, Maryland

<u>Licensure:</u>	State of Tennessee, License #: MD0000029608 State of Montana, License #: 12004	1997-present 2000-2015
<u>Board Certification:</u>	American Board of Neurological Surgery Maintenance of Certification	November 2002 January 2013
	Fellow, American College of Surgeons	October 2004

PROFESSIONAL EXPERIENCE

July 1996 - June 1997	Instructor, Department of Neurosurgery Johns Hopkins University School of Medicine Baltimore, Maryland
August 1997 - June 2001	Chief, Division of Neurosurgery Veterans Administration Medical Center Memphis, Tennessee
July 1997 - September 2009	Associate Professor, Department of Neurosurgery, College of Medicine University of Tennessee, Memphis and the Semmes-Murphey Clinic Memphis, Tennessee Director, Neuroscience Institute Director of Neurosurgery Residency Training Methodist University Hospital Memphis, Tennessee Founder and Executive Director, Memphis Regional Brain Tumor Center Memphis, Tennessee
October 2009 - October 2015	Associate Professor, Department of Neurological Surgery Director, Neurosurgery Community Practice Vanderbilt University Medical Center Nashville, Tennessee
October 2010 - October 2015	Associate Professor, Orthopaedic Surgery and Rehabilitation Vanderbilt University Medical Center Nashville, Tennessee
October 2015 – present	Professor of Neurological Surgery and Orthopedic Surgery Vanderbilt University Medical Center Nashville, Tennessee
July 2011-present	Co-Director, Vanderbilt Sports Concussion Center Vanderbilt University Medical Center Nashville, Tennessee

PROFESSIONAL ORGANIZATIONS

American Association of Neurological Surgeons
Congress of Neurological Surgeons
Joint Section on Tumors, AANS and CNS
Society of Neuro-Oncology

American College of Surgeons
 Southern Neurosurgical Society
 American College of Sports Medicine
 Williamson County Medical Society
 North American Spine Society

PROFESSIONAL ACTIVITIES

Institutional:

The Johns Hopkins University Medical School Council Baltimore, Maryland	1987-1990
House Staff Council Johns Hopkins Hospital, Baltimore, Maryland	1991-1994
Quality Improvement Committee Baptist Memorial Hospital, Memphis, Tennessee	1998-1999
Stroke Task Force Baptist Memorial Hospital, Memphis, Tennessee	1998-2000
Physician Advisor, Neurosurgical Intensive Care Unit Baptist Memorial Hospital, Memphis, Tennessee	1998-2000
Senior Leadership Council Methodist University Hospital, Memphis, Tennessee	2000-2006
Institutional Review Board Methodist University Hospital, Memphis, Tennessee	2001-2009
Chairman, Neurosciences Strategic Planning Commission Methodist Healthcare, Memphis, Tennessee	2003-2009
Neurosciences Critical Care Unit Physician Director Methodist University Hospital, Memphis, Tennessee	2003-2009
Associate Chief of Staff Methodist University Hospital, Memphis, Tennessee	2005-2006
Chairman, Neurosciences Institute Executive Committee Methodist University Hospital, Memphis, Tennessee	2005-2009
Board of Governors Semmes-Murphey Neurologic & Spine Institute, Memphis, Tennessee	2008-2009
Physician Advisory Council Vanderbilt Health – Williamson, Nashville, Tennessee	October 2010-present
Co-Founder and Co-Director, Vanderbilt Sports Concussion Research Effort (VSCoRE) Vanderbilt University Medical Center, Nashville, Tennessee	2012-present

National and International:

Consulting Team Neurosurgeon, Mississippi State	2000-present
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University Athletic Teams

Consulting Team Neurosurgeon, Memphis Grizzlies NBA Team	2001-2009
Founder and Co-Director, Annual International Neuro-Oncology Update	2001-present
Member, National Comprehensive Cancer Network CNS Panel Subcommittee on Meningiomas Subcommittee on Spinal Tumors Subcommittee on Radiation Therapy	2002-present 2007-2010 2007-2010 2007-present
Editorial Review Board, <i>Annals of Surgical Oncology</i>	2004-present
Editorial Committee, <i>Bulletin</i> , American Association of Neurological Surgeons	2007-2011
Panelist, Lance Armstrong Foundation Global Cancer Summit, Dublin, Ireland	August 2009
Editorial Review Board, <i>Journal of Neurosurgery</i>	October 2009-October 2011
Neurosurgical Consultant for ABC News Medical Bureau	2009-present
Consulting Team Neurosurgeon, Nashville Predators NHL Team	2009-present
Consulting Team Neurosurgeon, Vanderbilt University Athletic Teams	2009-present
Consulting Team Neurosurgeon, Nashville Sounds AAA Baseball Team	2010-present
Consulting Team Neurosurgeon, US Olympic Equestrian Teams and US Equestrian Foundation	2011-2012
Reviewer, <i>Neurosurgery Journal</i>	October 2012-present
Member, Southeastern Conference Working Group on Concussions	October 2012-present
Member, Expert Panel, 4 th International Consensus Conference on Concussion in Sport Group, Zurich, Switzerland	November 2012
AANS Resident Mentoring Program	2012-present
Member, Medical Executive Committee, Federation Equestrian Internationale (FEI)	2012-present
Consulting Neurosurgeon, National Football League (Tennessee Titans)	August 2013-present
Section Editor for Sports and Rehabilitation, <i>Neurosurgery</i>	July 2014-present
Concussion In Sport Group, Organizing Committee, Scientific	July 2015 - present

Program Committee

AWARDS AND HONORS

Youth of the Year, State of Mississippi	1982
C.B. Mitchell Pre-Medical Scholar, Mississippi State University	1982-86
President's List Scholar, Mississippi State University	1982-86
Most Outstanding Musician, Mississippi State University	1983, 1984, 1985, 1986
Rhodes Scholarship Finalist	1985
Blue Key "Man of the Year," Mississippi State University	1985
President, Mississippi State University Student Body	1985-86
Most Outstanding Senior in the Engineering School, Mississippi State University	1986
Most Outstanding Student Leader, Mississippi State University	1986
Mississippi State University Hall of Fame	1986
Phi Kappa Phi National Fellowship for Graduate and Professional Study	1986-1987
Alpha Omega Alpha, Johns Hopkins University School of Medicine	1990
Hunterian Award for Contributions to Neurosurgical Science	1996
Upjohn Award for Neurosurgical Research	1996
Finalist, American Brain Tumor Association Research Excellence Award	1996
Matthew Wood Faculty Teaching Award, University of Tennessee	1998, 2005, 2009
Physician of the Year, Methodist University Hospital	2004
Top Doctors in Memphis, <i>Memphis Magazine</i>	2006, 2008, 2009
America's Top Doctors in the Southeast (Castle Connolly Survey)	2006, 2007, 2008, 2009, 2010, 2011

America's Top Doctors for Cancer (Castle Connolly Survey) 2016	2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016
America's Top Doctors (Castle Connolly Survey)	2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016
"Patient's Choice Award" (Castle Connolly Survey)	2009, 2010, 2011, 2012 2013, 2014, 2015, 2016
Starkville High School Hall of Fame	2010
Distinguished Fellow, Bagley College of Engineering, Mississippi State University	March 2011
Riders 4 Helmets "Helmet Hero Award"	2012
Johns Hopkins Neurosurgery Distinguished Alumni Award	2013
Nashville's Top Doctors, <i>Nashville Magazine</i>	2014, 2015, 2016

Honorary Societies:

Phi Eta Sigma (Freshmen Men's Scholastic)
Blue Key (Leadership Society)
Omicron Delta Kappa
Tau Beta Pi (Engineering Scholastic)
Phi Kappa Phi
Alpha Omega Alpha

TEACHING ACTIVITIES

Faculty, Goodman Oral Board Review Course for AANS	2005-2007, 2009-2010
Faculty, Weekend Update Course, AANS	2010-2013
Director, Neuro-oncology Conference, Vanderbilt University Medical Center	September 2010 – present
Director, International Neuro-oncology Update Course, Nashville, Tennessee	September 2011
Instructor, Maintenance of Certification Board Review Course for AANS	2012-2013
Director, Neurosurgery Grand Rounds, Vanderbilt University Medical Center	September 2012- August 2014
Co-Director, Sports Concussion CME Update Course, Vanderbilt University Medical Center	July 2013, June 2016
Co-Director, Sports Concussion Research Colloquium, Vanderbilt University Medical Center	September 2015
Lecturer, Vanderbilt University School of Medicine 1 st year medical student neuroscience course	2015, 2016

New Resident Orientation Course for Neurosurgical Residents (VUMC)	2015, 2016
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COMMUNITY ACTIVITIES

Hope Presbyterian Church, Memphis, Tennessee Elder, small group ministry, greeter, intramural sports, choir, Sunday School teacher	1998-2009
Baseball Coach, Germantown Youth Athletic Association, Memphis, Tennessee	2000-2001, 2005-2009
Head Coach, Memphis Diamondbacks Baseball (travel league youth team), Memphis, Tennessee	2002-2004
Organizing Committee, "Head for A Cure" (5K race), Memphis, Tennessee	2002-2006
Board of Directors, Mississippi State University Development Foundation	2004-2012
Executive Committee, Memphis Thunder Triathlon Club, Memphis, Tennessee	2005-2009
Volunteer, Memphis Special Olympics, Memphis, Tennessee	2006-2008
Mississippi State University College of Engineering Alumni Advisory Council	2006-2009
Committee Member, Greater Memphis Greenline Advisory Board, Shelby Farms Park Alliance, Memphis, Tennessee	2006-2009
Child Sponsor, Compassion International	2006-present
Board of Directors, Methodist Healthcare Foundation, Memphis, Tennessee	2007-2009
Youth Baseball Coach, Franklin Baseball Club leagues, Franklin, Tennessee	2010-2011
Head Coach, Franklin Falcons Baseball Club (travel youth team), Franklin, Tennessee	2011-present
League Commissioner, Franklin Baseball Club, Franklin, Tennessee	2012-present
Board of Directors, Franklin Baseball Club, Franklin, Tennessee	2012-present
Board of Directors, Heritage Foundation of Franklin and Williamson County, Franklin, Tennessee	2013-present

CLINICAL RESEARCH

Studies conducted at Johns Hopkins:

“Open-label, Multi-center, Clinical Trial of GLIADEL for Patients with Recurrent Malignant Glioma”. RPN #95-10-13-02 (Co-investigator)

“Phase I, Open Label, Multi-Center Dose Escalation Study of GLIADEL in Patients with Recurrent Malignant Glioma”. (Co-investigator)

“A Multi-center Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of SB-238592-DB (Bradykinin Antagonist) in Patients with Severe Traumatic Brain Injury”. JCCI Protocol number RPN #96-03-11-01 (Co-investigator)

“A Safety Study of Tirilazad Mesylate (6 and 10 mg/kg/day) in Male Patients with Subarachnoid Hemorrhage”. JCCI Protocol number RPN #95-06-02-07 (Co-investigator)

“Safety and Efficacy of 15 mg/kg/day of Tirilazad Mesylate in North American Women with Subarachnoid Hemorrhage”. JCCI Protocol number RPN #96-03-13-02 (Co-investigator)

Studies conducted at University of Tennessee, Memphis:

Multi-center cooperative trials:

“A Prospective Clinical Study of Autogenous Tricortical Corticocancellous Bone Graft for Anterior Cervical Interbody Fusion in Patients with Symptomatic Cervical Disk Disease”. (Co-investigator)

“Dendrite Cell-Based Immunotherapy for Brain Tumors”. Cooperative trial with Comprehensive Cancer Center, University of North Carolina, Chapel Hill **(Principal Investigator)**

“A Phase II Study Utilizing the GliaSite RTS for the Treatment of a Resected Solitary Brain Metastasis”. **(Principal Investigator)**

“A Phase I Trial of Surgical Resection and Radiation Therapy Delivered via the GliaSite System Followed by Re-resection and Gliadel Wafer Placement Followed by Temozolomide as Initial Treatment for Supratentorial Malignant Glioma”. Cooperative trial with the University of North Carolina, Chapel Hill **(Principal Investigator)**

“A Phase 3 Randomized Open-Label Comparative Study of Standard Whole Brain Radiation Therapy With Supplemental Oxygen, With or Without RSR13, in Patients With Brain Metastases”. **(Principal Investigator)**

“PROLONG: A Prospective Look at Outcomes Nationally With Gliadel Wafers”. **(Principal Investigator)**

“An Examination of the Potential Cerebral Protective Efficacy of Mild Intraoperative Hypothermia During Intracranial Aneurysm Surgery (IHAST)”. NIH/NNDS national trial **(local Principal Investigator)**

“Cognitive Function After Intracranial Aneurysm Surgery Trial (CFAST)”. NIH/NINDS national trial **(local Principal Investigator)**

“A Phase III Multicenter Study of Intratumoral/Interstitial Therapy with TransMID™ Compared to Best Standard of Care in Patients with Progressive and/or Recurrent, Non-Resectable Glioblastoma Multiforme”. **(Principal Investigator)**

“Genetic Epidemiology of Adult Onset Glioma”. Southeastern Neuro-oncology Group **(Principal Investigator)**

“A Phase III Randomized, Double-Blind, Dexamethasone-Sparing Study Comparing Human Corticotropin-Releasing Factor (nCRF) to Placebo for Control of Symptoms Associated with Peritumoral Brain Edema in Patients with Malignant Brain Tumor who Require Chronic Administration of High-Dose Dexamethasone”. **(Principal Investigator)**

“Phase II Study Utilizing Focal Radiation in Patients with 1-3 Brain Metastases”. National study at ten participating centers (Trial Author and Lead Principal Investigator)

“Normal Pressure Hydrocephalus (NPH) Registry”. **(Principal Investigator)**

“A Phase III Randomized Trial of the Role of Whole Brain Radiation Therapy in Addition to Radiosurgery in the Management of Patients with One to Three Cerebral Metastases”. **(Principal Investigator)**

“Phase IV GliaSite Radiation Therapy System Registry Protocol for the Treatment of Resectable Malignant brain tumors”. GliaSite® Registry **(Principal Investigator)**

“A Phase 2, Multicenter, Exploratory Study, Evaluating the Treatment Effect of Surgery Plus Gliadel Wafer in Patients with Metastatic Brain Cancer”. **(Principal Investigator)**

“Cilengitide for subjects with newly diagnosed glioblastoma multiforme and methylated MGMT gene promoter – a multicenter, open-label, controlled Phase II study, testing cilengitide in combination with standard treatment (temozolomide with concomitant radiation therapy, followed by temozolomide maintenance therapy) versus standard treatment alone (CENTRIC)”. **(Principal Investigator)**

“BIBW 2992 with and without daily temozolomide in the treatment of patients with recurrent malignant glioma (Phase II)”. **(Principal Investigator)**

Local and institutional trials:

“Chemotherapy Sensitivity of Explanted Human Brain Tumors”. **(Study Author and Principal Investigator)**

“ImPACT© Athletic Concussion Assessment Program”. University of Memphis, Mississippi State University. **(Principal Investigator)**

“A Clinical Study to Evaluate the Safety and Performance of the GliaSite RTS, A Radiation Delivery System, in Patients with Malignant Brain Tumors Undergoing Surgical Resection”. **(Principal Investigator)**

“Pilot Clinical Study Protocol for the Evaluation of the INVISx Cranial Fixation System for Cranial Skull Flap Fixation”. **(Principal Investigator)**

“A Phase I/II Trial of Maximal Resection, Radiation Therapy Delivered Via the GliaSite® Delivery System with Concomitant Temozolomide, Followed by Adjuvant Temozolomide for the Treatment of Newly Diagnosed Glioblastoma Multiforme”. **(Principal Investigator)**

“Phase I/II of Maximal Resection, Local Radiation Boost with Concomitant Temozolomide, Followed by External Radiation Therapy with Concomitant Temozolomide for the Treatment of Newly Diagnosed Glioblastoma Multiforme”. **(Study Author and Principal Investigator)**

“Evaluation of Levetiracetam in Brain Tumor Patients with Seizures”. **(Principal Investigator)**

“A Phase II Study of Gliadel, Concomitant Temozolomide and Radiation, Followed by Metronomic Therapy with Temozolomide for Newly Diagnosed Malignant High-Grade Glioma”. **(Principal Investigator)**

“Treatment Satisfaction Survey for Brain Tumor Patients and their Caregivers”. **(Principal Investigator)**

“Survey of Brain Tumor Patients about use of the Internet for Medical Information and Decision Making”. **(Principal Investigator)**

Studies conducted at Vanderbilt University:

Multi-center cooperative trials:

“A Multicenter Collaborative Study to Determine the Sensitivity and Specificity of Plasma and Cerebrospinal Fluid Exosome EGFRvIII Detection Compared to Tissue EGFRvIII Detection by qPCR assay of Exosomal RNA”. (Co-investigator)

“Cilengitide for subjects with newly diagnosed glioblastoma multiforme and methylated MGMT gene promoter – a multicenter, open-label, controlled Phase II study, testing cilengitide in combination with standard treatment (temozolomide with concomitant radiation therapy, followed by temozolomide maintenance therapy) versus standard treatment alone (CENTRIC)”. (Co-investigator)

“An International, Randomized, Double-Blind, Controlled Study of Rindopepimut/GM-CSF with Adjuvant Temozolomide in Patients with Newly Diagnosed, Surgically Resected, EGFRvIII Glioblastoma (ACT IV)”. (Co-investigator)

“A Phase II Study of Rindopepimut/GM-CSF in Patients with Relapsed EGFRvIII-Positive Glioblastoma”. (Co-investigator)

“A Phase III Clinical Trial Evaluating DCVax-L, Autologous Dendritic Cells Pulsed with Tumor Lysate Antigen for the Treatment of Glioblastoma Multiforme.” (Co-investigator)

Local and institutional trials:

“Vanderbilt Sports Concussion Center Post-Concussion Red Cap Database Collection”. (Co-investigator)

“Survey of Football Helmet Condition and Maintenance in Urban vs, Suburban High Schools in Middle Tennessee”. (Co-investigator)

“Equilibrate Balance Test Validation after Sports Concussion”. **(Principal Investigator)**

“**Evaluation of HS-1000 device capabilities in the Diagnosis and Assessment of Controls and Concussed Patients**”. **(Study Author and Principal Investigator)**

“Review of Atypical Meningioma Population at Vanderbilt University Medical Center.” (Principal Investigator)

PUBLICATIONS AND PRESENTATIONS

Articles:

1. Sills AK, Tamargo RJ, Brem H. Reduction in peritumoral brain edema by an intracranial polymer implant. *Surgical Forum* 41: 516-518, 1990.
2. Tamargo RJ, Sills AK, Reinhard CS, et al. Interstitial delivery of dexamethasone in the brain for the reduction of peritumoral edema. *Journal of Neurosurgery* 74(6): 956-961, 1991.
3. Sills AK. Lumbar stenosis with osteoporotic compression fracture and neurogenic claudication. *Journal of Spinal Disorders* 6(3):269-270, 1993.
4. Sills AK, Clatterbuck RE, Thompson RC, Cohen P, Tamargo RJ. Endothelial cell expression of ICAM-1 in experimental posthemorrhagic vasospasm. *Neurosurgery* 41(2): 453-461, 1997.
5. Sills AK, Williams J, Tyler BM, Epstein DS, Sipos EP, et al. Squalamine inhibits angiogenesis and solid tumor growth in vivo and perturbs embryonic vasculature. *Cancer Research* 58(13): 2784-2792, 1998.
6. Fung L, Ewend M, Sills AK, et al. Pharmacokinetics of interstitial delivery of carmustine, 4-hydroperoxycyclophosphamide, and paclitaxel from a biodegradable polymer implant in the monkey brain. *Cancer Research* 58(4): 672-684, 1998.
7. Brown HG, Burger PC, Olivi A, Sills AK, Barditch-Crovo PA, Lee RR. Intracranial leiomyosarcoma in a patient with AIDS. *Neuroradiology* 41(1): 35-39, 1999.
8. Ewend M, Thompson R, Anderson R, Sills AK, Staveley-O'Carroll K, Tyler BM, Hanes J, Brat D, Thomas M, Jafee E, Pardoll D, Brem H. Intracranial paracrine interleukin-2 therapy stimulates prolonged antitumor immunity that extends outside the central nervous system. *Journal of Immunotherapy* 23(4):438-448, 2000.
9. Hanes J, Sills AK, Zhao Z, Suh KW, Tyler BM, DiMeco F, Brat DJ, Choti MA, Leong KW, Pardoll DM, Brem H. Controlled local delivery of interleukin-2 by biodegradable polymers protects animals from experimental brain tumors and liver tumors. *Pharmaceutical Research* 18(7):899-906, 2001.
10. Duntsch CD, Divi M, Jones T, Zhou Q, Krishnamurthy M, Boehm P, Wood G, Sills AK, Moore B. Safety and efficacy of a novel cannabinoid chemotherapeutic, KM-233, for the treatment of high-grade glioma. *Journal of Neuro-Oncology*, 77(2): 143-152, 2006.
11. Brem SS, Bierman PJ, Black P, Blumenthal DT, Brem H, Chamberlain MC, Chiocca EA, DeAngelis LM, Fenstermaker RA, Fine HA, Friedman A, Glass J, Grossman SA, Heimberger AB, Junck L, Levin V, Loeffler JJ, Maor MH, Narayana A, Newton HB, Olivi A, Portnow J, Prados M, Raizer JJ, Rosenfeld SS, Shrieve DC, Sills AK, Spence AM, Vronis FD; National Comprehensive Cancer Network. Central nervous system cancers: Clinical Practice Guidelines in Oncology. *Journal of the National Comprehensive Cancer Network* 3(5): 644-90, 2005.
12. Sills AK. Current treatment approaches to surgery for brain metastases. *Neurosurgery* 57(5 suppl): S24-32, 2005.

13. Rogers L, Rock J, Sills AK, et al. Results of a phase II trial of the GliaSite radiation therapy system for the treatment of newly diagnosed, resected single brain metastases. *Journal of Neurosurgery* 105(3): 375-384, 2006.
14. Sills AK. "Did you make the grade?: A review of web-based physician evaluators." *AANS Bulletin*, Winter 2007.
15. Sills AK. "The Measure of Obesity: A Look at the Data." *AANS Neurosurgeon*, Summer 2008.
16. Brem SS, Bierman PJ, Black P, Brem H, Chamberlain MC, Chiocca EA, DeAngelis LM, Fenstermaker RA, Friedman A, Gilbert MR, Glass J, Grossman SA, Heimberger A, Junck L, Linette GP, Loeffler JJ, Maor MH, Moots P, Mrugala M, Nabors LB, Newton HB, Olivi A, Portnow J, Prados M, Raizer JJ, Shrieve DC, Sills AK. Central nervous system cancers. *Journal of the National Comprehensive Cancer Network* 6(5): 456-504, 2008.
17. Pinner N, Hurdle A, Oliphant C, Reaves A, Lobo B, Sills AK. Treatment of warfarin-related intracranial hemorrhage: A comparison of prothrombin complex concentrate and recombinant activated factor VII. *World Neurosurgery* 74(6): 631-635, 2010.
18. Usery JB, Michael LM 2nd, Sills AK, Finch CK. A prospective evaluation and literature review of levetiracetam use in patients with brain tumors and seizures. *Journal of Neuro-oncology* 99(2): 251-260, 2010.
19. Hindman BJ, Bayman EO, Pfisterer WK, Torner JS, Todd MM, Sills AK; IHAST Investigators. No association between intraoperative hypothermia or supplemental protective drug and neurologic outcomes in patients undergoing temporary clipping during cerebral aneurysm surgery: findings from the Intraoperative Hypothermia for Aneurysm Surgery Trial. *Anesthesiology* 112(1): 86-101, 2010.
20. Nguyen HP, Zaroff JG, Bayman EO, Gelb AW, Todd MM, Hindman BJ, Sills AK; IHAST-MIDS and IHAST Investigators. Perioperative hypothermia (33 degrees C) does not increase the occurrence of cardiovascular events in patients undergoing cerebral aneurysm surgery: findings from the Intraoperative Hypothermia for Aneurysm Surgery Trial. *Anesthesiology* 113(2): 327-342, 2010.
21. Brem SS, Bierman PJ, Brem H, Butowski N, Chamberlain MC, Chiocca EA, DeAngelis LM, Fenstermaker RA, Friedman A, Gilbert MR, Hesser D, Junck L, Linette GP, Loeffler JS, Maor MH, Michael M, Moots PL, Morrison T, Mrugala M, Nabors LB, Newton HB, Portnow J, Raizer JJ, Recht L, Shrieve DC, Sills AK, Vrionis FD, Wen PY; National Comprehensive Cancer Network. Central nervous system cancers. *Journal of the National Comprehensive Cancer Network* 9(4):352-400, 2011.
22. Solomon GS, Sills AK. Pharmacologic treatment of sport-related concussion: A review. *Journal of Surgical Orthopaedic Advances* 22(3): 193-197, 2013.
23. Zuckerman S, Solomon G, Forbes J, Haase R, Sills A, Lovell M. Response to acute concussive injury in soccer players: Is gender a modifying factor? *Journal of Neurosurgery: Pediatrics* 10(6): 504-510, 2012.
24. Zuckerman SL, Lee Y, Odom MJ, Solomon GS, Forbes JA, Sills AK. Recovery from sports-related concussion: Days to return to neurocognitive baseline in adolescents versus young adults. *Surgical Neurology International* 3:130, 2012.
25. Zuckerman SL, Kuhn A, Dewan MC, Morone PJ, Forbes JA, Solomon GS, Sills AK. Structural brain injury in sports-related concussion. *Neurosurgical Focus* 33(6): E6: 1-12, 2012.

26. McCrory P, Meeuwisse WH, Aubry M, Cantu B, Dvorak J, Echemendida RJ, Engebretsen L, Johnston K, Kutcher J, Raftery M, Sills A, et al. Consensus statement on concussion in sport: The 4th International Conference on Concussion in Sport held in Zurich, November 2012. *British Journal of Sports Medicine* 47(5): 250-258, 2013.
27. Provvidenza C, Engebretsen L, Tator C, Kissick J, McCrory P, Sills A, Johnston KM. From consensus to action: knowledge transfer, education and influencing policy on sports concussion. *British Journal of Sports Medicine* 47(5): 332-338, 2013.
28. Aubry M, Dvorak J, McCrory P, Meeuwisse W, Raftery M, Sills A, Engebretsen L. Zero tolerance: the future of head injury in sports. *British Journal of Sports Medicine* 47(5): 249, 2013.
29. Nabors LB, Ammirati M, Bierman PJ, Brem H, Butowski N, Chamberlain MC, DeAngelis LM, Fenstermaker RA, Friedman A, Gilbert MR, Hesser D, Holdhoff M, Junck L, Lawson R, Loeffler JS, Maor MH, Moots PL, Morrison T, Mrugala MM, Newton HB, Portnow J, Raizer JJ, Recht L, Shrieve DC, Sills AK Jr, Tran D, Tran N, Vrionis FD, Wen PY, McMillian N, Ho M; National Comprehensive Cancer Network. Central nervous system cancers. *Journal of the National Comprehensive Cancer Network* 11(9): 1114-1151, 2013.
30. Lee YM, Odom MJ, Zuckerman SL, Forbes JA, Solomon G, Sills AK. Does age affect symptom recovery after sports related concussion? A study of high school and college athletes. *Journal of Neurosurgery: Pediatrics* 12(6): 537-544, 2013.
31. Zuckerman S, Lee Y, Odom M, Solomon G, Sills AK. Baseline neurocognitive scores in athletes with attention deficit-spectrum disorders and/or learning disability. *Journal of Neurosurgery: Pediatrics* 12(2): 103-109, 2013.
32. Sills AK, Solomon G, Ellenbogen R. The neurosurgeon in sport: An update from the 2012 Zurich International Concussion Conference. *Neurosurgery* 73(6): E1091-1098, 2013.
33. Zuckerman S, Apple R, Odom M, Lee Y, Solomon G, Sills AK. Effect of sex on symptoms and return to baseline in sport-related concussion. *Journal of Neurosurgery: Pediatrics* 13(1):72-81, 2014.
34. Forbes J, Zuckerman S, He L, McCalley E, Lee Y, Solomon G, Halstead P, Sills AK. Subdural hemorrhage in two high school football players: Post-injury helmet testing. *Pediatric Neurosurgery* 49(1):43-49, 2013.
35. Solomon GS, Sills AK. Chronic traumatic encephalopathy and the availability cascade. *The Physician and Sports Medicine* 42(3): 26-31, 2014.
36. Simpson AL, Sun K, Pheiffer TS, Rucker DC, Sills AK, Thompson RC, Miga MI. Evaluation of conoscopic holography for estimating tumor resection cavities in model-based image-guided neurosurgery. *IEEE Transactions on Biomedical Engineering* 61(6): 1833-1843, 2014.
37. Solomon G, Sills AK. A retrospective view of concussion in American football, 1900-1959: What was suggested then we now know. *The Physician and Sports Medicine* 43(3): 247-252, 2015.
38. Nabors LB, Portnow J, Ammirati M, Brem H, Brown P, Butowski N, Chamberlain MC, DeAngelis LM, Fenstermaker RA, Friedman A, Gilbert MR, Hattangadi-Gluth J, Hesser D, Holdhoff M, Junck L, Lawson R, Loeffler JS, Moots PL, Mrugala MM, Newton HB, Raizer JJ, Recht L, Shonka N, Shrieve DC, Sills AK, Swinnen LJ, Tran D, Tran N, Vrionis FD, Wen PY, McMillian NR, Ho M. Central nervous system cancers, version 2.2014. Featured updates to the NCCN Guidelines. *Journal of the National Comprehensive Cancer Network* 12(11): 1517-1523, 2014.

39. Militana AR, Donahue MJ, Sills AK, Solomon GS, Gregory AJ, Strother MK, Morgan VL. Alterations in default-mode network connectivity may be influenced by cerebrovascular changes within 1 week of sports related concussion in college varsity athletes: A pilot study. *Brain Imaging and Behavior*, May 15, 2015 [Epub ahead of print].
40. Zuckerman SL, Lee YM, Odom MJ, Forbes JA, Solomon GS, Sills AK. Sports-related concussion in helmeted vs unhelmeted athletes: Who fares worse? *International Journal of Sports Medicine* 36(5): 419-425, 2015.
41. Morgan CD, Zuckerman SL, Lee YM, King L, Beaird S, Sills AK, Solomon GS. Predictors of post-concussion syndrome (PCS) after sports-related concussion in young athletes: A matched case-control study. *Journal of Neurosurgery: Pediatrics* 15(6): 589-598, 2015.
42. Solomon G, Sills AK, Gregory A. The Vanderbilt Sports Concussion Center: clinical service, educations, and research. *Current Research in Concussion* 1(1): 7-8, 2014.
43. Zuckerman SL, Morgan CD, Burks S, Forbes JA, Chambless LB, Solomon GS, Sills AK. Functional and structural traumatic brain injury in equestrian sports: A review of the literature. *World Neurosurgery* 83(6): 1098-1113, 2015.
44. Zuckerman SL, Mistry AM, Hanif R, Chambless LB, Neimat JS, Wellons JC 3rd, Mocco J, Sills AK, McGirt MJ, Thompson RC. Neurosurgery Elective for Preclinical Medical Students: Early Exposure and Changing Attitudes. *World of Neurosurgery*, September 7, 2015 [Epub ahead of print].
45. Morgan CD, Zuckerman SL, King LE, Beaird SE, Sills AK, Solomon GS. Post-concussion syndrome (PCS) in a youth population: defining the diagnostic value and cost-utility of brain imaging. *Child's Nervous System*, Dec;31(12):2305-9, 2015.
46. Solomon GS, Kuhn AW, Zuckerman SL, Casson IR, Viano DC, Lovell MR, Sills AK. Participation in Pre-High School Football and Neurological, Neuroradiological, and Neuropsychological Findings in Later Life: A Study of 45 Retired National Football League Players. *Am J Sports Med*. 2016 May;44(5):1106-15.
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6. Palka KT, Mobley B, Perkins S, Cooper M, Sills AK, Moots P. "Glioma and Other Neuroepithelial Neoplasms." *Textbook of Uncommon Cancers*, Raghavan D, Blanke C, Johnson DH, Moots PL, Reaman GH, Rose PG, Sekeres MA (eds.), 2012.
7. Sills AK, Gregory A, Solomon G. "Sports Concussion Update." *Primary Care Clinics in Sports Medicine*, 2012.
8. Sills, AK. "Concussion and Other Neurologic Sports Injuries." *Comprehensive Orthopaedic Review*, 2012.
9. Sills AK, Solomon GS. "Sports Medicine: Updates, Controversies, and Advancements." *Primary Care: Clinics in Office Practice*, Korngold Y (ed.), 2012.
10. Sills AK. Treatment of head injuries. *Primary Care* 40(2): 253-258, 2013.
11. Lee YM, Solomon G, Sills AK. Recognizing and treating concussion related to sports injuries. *Practical Pain Management* 14(4): 36-46, 2014.
12. Sills AK, Kuhn JE. "Concussion and Common Neurologic Sports Injuries." *AAOS Comprehensive Orthopaedic Review*, Boyer MI (ed.), 2014.
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Letters to the editor and editorials:

1. Zuckerman SL, Solomon G, Sills AK. Letter to the Editor. *Neurosurgical Focus* 34(5): E16, 2013.
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Abstracts:

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4. Storm PB, Olivi A, Sills AK, Lyman MD, and Sawhney AS: Reduction of epidural fibrosis in a rat laminectomy model by a photo polymerized biodegradable hydrogel. International Biomaterials Symposium, San Francisco, CA, March 1995.
5. Tamargo RJ, White BT, and Sills AK: Postoperative blood-brain barrier permeability and response to steroid treatment. Neurosurgical Society of America, Sea Island, GA, June 1995.
6. Sills AK, Clatterbuck RE, Thompson RC, and Tamargo RJ: Early upregulation of ICAM-1 expression in experimental vasospasm. Congress of Neurological Surgeons, San Francisco, CA, October 1995.
7. Sills AK, Tyler BM, and Brem H: Intracranial delivery of dexamethasone from a biodegradable polymer. Congress of Neurological Surgeons, San Francisco, CA, October 1995.
8. Sills AK, Clatterbuck RE, Cohen PL, Thompson RC, and Tamargo RJ: Endothelial cell ICAM-1 expression as an early signal for the subsequent development of experimental vasospasm. Joint Section on Cerebrovascular Surgery of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons, San Antonio, TX, January 1996.
9. Sills AK, Epstein DS, Sipos EP, Williams J, Zasloff M, and Brem H: Inhibition of tumor-induced neovascularization by squalamine, a novel angiogenesis inhibitor. American Association of Neurological Surgeons, Minneapolis, MN, April 1996.
10. Storm PB, Sills AK, Olivi A, Lyman M, and Sawhney A: Effects of a photo polymerized hydrogel on the reduction of postlaminectomy scar formation in rats. American Association of Neurological Surgeons, Minneapolis, MN, April 1996.
11. Sills AK, White BY, Tyler BM, and Tamargo RJ: Effect of perioperative steroid treatment on postoperative cerebral edema. American Association of Neurological Surgeons, Minneapolis, MN, April 1996.
12. Cohen PL, Sills AK, Clatterbuck RE, Thompson RC, and Tamargo RJ: Timing of blood removal and development of vasospasm in the rat femoral artery model. American Association of Neurological Surgeons, Minneapolis, MN, April 1996.
13. Epstein DE, Sills AK, Brem H, Collins D, Williams J, and Zasloff M: Selective inhibition of VEGF-stimulated endothelial cells by squalamine. American Association of Neurological Surgeons, Minneapolis, MN, April 1996.
14. Fung LK, Ewend M, Sills AK, Sipos E, Thompson RC, Brem H, and Saltzman WM: Polymer delivery of carmustine, 4-hydroperoxy-cyclophosphamide and taxol in the monkey brain. American Association for Cancer Research, Washington, D.C., April 1996.
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17. Sills AK, Zhao Z, Tyler B, Crongeyer J, Leong K, Pardoll D, and Brem H: Intracranial delivery of interleukin-2 prolongs survival in primary and metastatic brain tumor models. Congress of Neurological Surgeons, Montreal, Quebec, September 1996.
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24. Sills AK: New Approaches to Brain Tumor Therapy. Tennessee Neurosurgical Society, Nashville, TN, September 1998.
25. Sills AK: Transverse cervical incision for carotid micro-endarterectomy. Tennessee Neurosurgical Society, Nashville, TN, September 1999.
26. Sills AK: Role of conventional angiography in the management of extracranial vascular disease. Tennessee Neurosurgical Society, Nashville, TN, September 1999.
27. Sills AK, Dalrymple S: Transverse cervical incision for carotid micro-endarterectomy. American Association of Neurological Surgeons, Boston, MA, October 1999.
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29. Sills AK, Dalrymple S, and Hamm W: Transcranial Cerebral Oximetry as a non-invasive monitor of cerebral perfusion during carotid endarterectomy. AANS/CNS Joint Section on Cerebrovascular Surgery, New Orleans, LA, February 2000.
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34. Sills AK, Dalrymple S, Vang M, and Williams S: Role of angiography in the diagnosis and management of extracranial atherosclerotic disease. American Association of Neurological Surgeons, San Francisco, CA, April 2000.
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36. Sills AK, Dalrymple S, and Hamm W: Use of propofol for cerebral protection during aneurysm surgery. Congress of Neurological Surgeons Meeting, San Antonio, TX, October 2000.
37. Sills AK, Bernard J, and Williams S: Directed extraluminal insertion of platinum coils during aneurysm surgery. Congress of Neurological Surgeons, San Antonio, TX, October 2000.
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48. Sills AK, Redmond A, Donovan-Peluso MA: Overexpression of angiogenesis factors from explanted brain tumors correlates with brain edema. Society for Neuro-Oncology, Washington, DC, November 2001.
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53. Burri SH, Sills AK, Fraser RW, Asher AL: Encouraging early results using the GliaSite brachytherapy device as a portion of initial therapy for malignant gliomas. Society of Neuro-Oncology, Keystone, CO, November 2003.
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55. Duntsch CD, Divi M, Jones T, Wood G, Moore B, Sills AK: Invitro safety and efficacy of a novel CB2-selective cannabinoid chemotherapeutic agent, Km-233, for the treatment of high-grade glioma. Society of Neuro-Oncology, Edinburgh, Scotland, May 2005.
56. Sills AK, Tatter S, Fountas K, Fraser R, Asher A, Vogelbaum M, Judy K, Canute G, Jensen R, and Redmond A: A Phase II study utilizing focal radiation in patients with 1-3 brain metastases. Southern Neurosurgical Society, Bermuda, March 2006.
57. Sills AK, Redmond A, Jackson M, Dubal N: Use of focal radiation for newly diagnosed glioblastoma. Society of Neuro-Oncology, Orlando, FL, November 2006.
58. Sills AK, Tatter S, Fountas K, Fraser R, Asher A, Vogelbaum M, Judy K, Canute G, Jensen R, and Redmond A: A Phase II study utilizing focal radiation in patients with 1-3 brain metastases. Society of Neuro-Oncology, Orlando, FL, November 2006.
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60. Sills AK, Redmond A, Mynatt M, Dubal N: Use of focal radiation in newly diagnosed glioblastoma multiforme. American Association of Neurological Surgeons, Washington, DC, April 2007.

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62. Sills AK, Redmond A, Dubal N: Use of focal radiation for newly diagnosed high-grade glioma. Society of Neuro-Oncology, Dallas, TX, November 2007.
63. Sills AK, Tatter S, Fountas K, Fraser R, Asher A, Vogelbaum M, Judy K, Canute G, Jensen R, and Redmond A: Update on Phase II study using focal radiation in patients with 1-3 brain metastases. Society of Neuro-Oncology, Dallas, TX, November 2007.
64. Hurdle A, Finch C, Crowder K, and Sills AK: Use of anticonvulsant medications in aneurysmal subarachnoid hemorrhage. Society for Critical Care Medicine, Honolulu, HI, February 2008.
65. Hurdle A, Finch C, Crowder K, and Sills AK: Risk factors for vasospasm and cerebral infarction in aneurysmal subarachnoid hemorrhage. Society for Critical Care Medicine, Honolulu, HI, February 2008.
66. DeCuypere M, Sills AK, Redmond A: Quality of life and treatment satisfaction survey of brain tumor patients and their caregivers. Society of Neuro-Oncology, Las Vegas, NV, November 2008.
67. Sills AK, Michael M, Usery J, Finch C: A prospective evaluation and literature review of Levetiracetam use in patients with brain tumors and seizures. Society of Neuro-Oncology, New Orleans, LA, October 2009.
68. Sills AK, DeCuypere M, Redmond A: Perceived quality of life and emotional impact of treatment in brain tumor patients. Society of Neuro-Oncology, New Orleans, LA, October 2009.
69. Winston A, Hurdle A, Finch C, Nesheiwat C, Michael, M, Sills, AK: Use of hypertonic saline in surgical patients with brain tumors to treat cerebral edema. SCCM 39th Critical Care Congress, January 9-12, 2010.
70. Manus D, Clemmons P, Andal R, Singer R, Brown D, Claussen D, Connors J, Hermann L, Jordan L, Kirshner H, Mocco J, Moore R, O'Duffy A, Riebau D, Sills A, Strother M: Noninvasive multi-echo vessel-encoded arterial spin labeling reactivity for more comprehensive quantification of hemodynamic compensation: Development and clinical implementation in 50 patients with cerebrovascular disease. 21st ISMRM Meeting/Exhibition, Salt Lake City, Utah, April 20-26, 2013.
71. Zuckerman S, Mistry A, Hanif R, Mocco J, Sills A, McGirt M, and Thompson R: Neurosurgery elective for preclinical medical students: Early exposure and changing attitudes. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 2013
72. Militana A, Donahue M, Strother M, Sills A, Solomon G, Morgan V: Increased cerebrovascular reactivity in the days following sports-related concussion in college athletes. ASNR Meeting, Montreal, Quebec, June 2014.
73. Zuckerman S, Sills AK, Solomon G: Risk factors for post-concussion syndrome in an exclusively sport-related concussion group: Case control study. CNS Annual Meeting, Boston, MA, October 2014.
74. Zuckerman S, Mistry A, Hanif R, Neimat JS, Wellons JC, Mocco J, Sills AK, McGirt M, Thompson RC: Neurosurgery elective for preclinical medical students: Early exposure and changing attitudes. AANS meeting, Washington, DC, May 2015.

Selected National Invited Lectures:

- “Cerebral Tumors and Other Lesions” February 5, 2012
AANS Review Course, Las Vegas, NV
- “Review of Current Brain Tumor Principles” April 14, 2012
AANS Meeting, Practical Course, Miami, FL
- “Neuro-Oncology Review” February 16, 2013
AANS Neurosurgical Update Course, Miami, FL
- “Sideline Assessment” April 27, 2013
AANS Annual Meeting, Practical Course, New Orleans, LA
- “The Complex Concussion Patient” April 6, 2014
AANS Annual Meeting, Practical Course, San Francisco, CA
- “New Trends in Concussion Research” April 7, 2014
AANS Annual Meeting, Dinner Course, San Francisco, CA
- “Return to Play After Sports Injury” April 9, 2014
AANS Annual Meeting, Breakfast Seminar, San Francisco, CA
- “Head Injuries in Athletes” August 8, 2014
Cleveland Clinic Team Physician Course, Cleveland, OH
- “Lumbar Spine Injuries in Athletes” August 8, 2014
Cleveland Clinic Team Physician Course, Cleveland, OH
- “Athletic Spine Injuries” August 9, 2014
American Orthopedic Society for Sports Medicine Board Review Course, Chicago, IL
- “New Research in Concussion” February 3, 2015
Big Sky Sports Medicine Meeting, Big Sky, MT
- “New NCAA Concussion Regulations” April 27, 2015
Southeastern Conference (SEC) Sports Medicine Meeting, Anniston, AL
- “The Neurosurgeon as Team Physician” May 2, 2015
Course Director, AANS Annual Meeting, Washington, D.C.
- “New Directions in Concussion Management” May 3, 2015
AANS Annual Meeting, Breakfast Seminar, Washington, D.C.
- “Return to Play Issues After Concussion” May 4, 2015
AANS Annual Meeting, Dinner Course, Washington, D.C.
- “Spine Injuries in Athletes” August 15, 2015
American Orthopedic Society for Sports Medicine Board Review Course, Chicago, IL
- “Sports Related Head Injury: Prevention, Management, Return to Play” March 3, 2016
Southern Neurosurgical Society meeting, San Antonio, TX
- “Neurosurgical Care of Athletes - Concussion, Spine, Peripheral Nerve and Return to Play”, Course Director, AANS Annual Meeting, Chicago, IL May 1, 2016

- "Return to Play after Sports Injury: Concussion" May 3, 2016
AANS Annual Meeting, Chicago, IL
- "Spine Problems in Athletes - Screening, Acute Care, Surgery and Return to Play", Professional Hockey Athletic Trainers Society National Meeting June 27, 2016
Nashville, TN