

CURRICULUM VITAE
Kevin Owen Lillehei, M.D.

Personal Data:

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| Birthplace: | Minneapolis, Minnesota |
| Citizenship: | United States |
| Marital Status: | Married |
| Wife's Maiden Name: | Anne Cheryl Hofmann |
| Children: | Kira Anne |
| Office Address/Telephone | Department of Neurosurgery Box C-307 University of Colorado Health Sciences Center Denver, Colorado 80262 (303) 724-2306 |

Education:

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| High School: | Marshall-University High School, Minneapolis, Minnesota 1968-1971 |
| Undergraduate College: | Cornell University, Ithaca, New York Double major - Physics and Chemistry 1971-1975 |
| Medical School: | University of Minnesota Medical School 1975-1979 Harvard Medical School - Peter Bent Brigham Hospital Boston, Massachusetts, Cardiology elective 7/1/78-8/1/78 Royal Free Hospital, London, England Medicine elective 3/20/79-5/20/79 |

Postgraduate Education:

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| Internship | Straight Surgery, University of Michigan Medical Center, Ann Arbor, Michigan, 1979-1980 |
| Neurosurgery Residency Training | University of Michigan Medical Center, Ann Arbor, Michigan, 1980-85 |

Academic Appointments:

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| Assistant Professor of Surgery Department of Neurosurgery University of Colorado Health Sciences Center Denver, Colorado | 1985-1993 |
| Staff Physician Division of Neurosurgery Denver General Hospital Denver, Colorado | 1985-present |
| Staff Physician Division of Neurosurgery Veteran's Administration Medical Center Denver, Colorado | 1985-present |
| Director, Neurosurgical Intensive Care Unit Denver General Hospital, Denver, Colorado | 1986-1987 |
| Chief, Division of Neurosurgery Veteran's Administration Medical Center Denver, Colorado | 1987-1990 |
| Chief, Section of Neuro-Oncology Department of Neurosurgery University of Colorado Health Sciences Center Denver, Colorado | 1990-present |
| Program Leader Surgical Oncology Program University of Colorado Cancer Center Denver, Colorado Co-Director | 1991-1995 |
| Clinical Investigations Core University of Colorado Cancer Center Denver, Colorado | 1992- 2000 |
| Co-Director Adult Clinical Oncology Program University of Colorado Cancer Center Denver, CO | 1995- 2014 |

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| Associate Professor of Surgery Division of Neurosurgery University of Colorado Health Sciences Center Denver, Colorado | 1993 – 2000 |
| Co-Director Multidisciplinary Pituitary Tumor Program University of Colorado Health Sciences Center Denver, Colorado | 2006 - present |
| Professor of Neurosurgery Department of Neurosurgery University of Colorado Health Sciences Center Denver, Colorado | 2000 – present |
| Vice Chair of Clinical Affairs Department of Neurosurgery University of Colorado health Sciences Center Denver, Colorado | 2001- 2004 |
| Interim Chair Department of Neurosurgery University of Colorado Health Sciences Center Denver, Colorado | 8/18/2004 – 3/31/06 |
| Chair Department of Neurosurgery University of Colorado Health Sciences Center Denver, Colorado | 4/1/2006 - present |
| Recipient of Endowed Chair, Ogsbury-Kindt Chair in Neurosurgery | 4/1/2006 - present |
| Professor of Neurology Department of Neurology University of Colorado School of Medicine | 10/19/2010 - present |

Certification:

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| National Board of Medical Examiners | 1980 |
| Deputy Medical Examiner -Washtenaw County Health Dept. | 1983 |
| Diplomate American Board of Neurological Surgeons | Sept 1989 |

Licensure:

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| State of Michigan-License (#043851) | 1981-1988 |
| State of Colorado-License (#26670) | 1985-present |

Hospital Staff Appointments:

Denver General Hospital, Denver, Colorado
University Hospital, Denver, Colorado
Veteran's Administration Hospital, Denver, Colorado

The Children's Hospital, Denver, Colorado
 St. Anthony's Central Hospital, Denver, Colorado
 Parker Adventist Hospital, Parker Colorado

Honors and Awards:

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| Marshall-University High School (graduated with honors) | 1971 |
| Cornell University, B.A. Degree, cum laude in Physics | 1975 |
| Dean's Honor List, Cornell University | 1974-1975 |
| Captain of the Wrestling Team, Cornell University | 1974-1975 |
| Invited Participant, Interleukin-2 Seminar, The Preuss Foundation for Brain Tumor Research Dallas, Texas | June 1987 and Sept 1988 |
| Second Place Award, Neuro-Oncology Poster Session American Association of Neurological Surgeons | April 1990 |
| Letter of Commendation, Moscow State University, Moscow, USSR. Treatment of patient Darya Grebenshekova. | Sept. 1990 |
| First Gene Therapy Research Trial in Colorado, with treatment of first patient with Gene Therapy in Colorado (Malignant Glioma). | 1996 |
| "The Best Doctors in America, - Neurological Surgery" Best-Doctors, Inc., Aiken,S.C. | 1996-1997, 1997-1998,2001-2002, 2005-6 |
| Honorable Mention for Rubinstein Award - Co-author of abstract submitted to the American Assoc of Neuropathologist Annual Meeting, Pittsburgh, PA | 1997 |
| Honored Professor - Match Day Celebration, University of Colorado School of Medicine - Class of 1997 | March 17, 1997 |
| Listed in the "Top Doctors in Denver Region - Neurosurgery" in <u>5280 Magazine</u> | 1998, 2000, 2002, 2004-2015 |
| President of the Colorado Neurosurgical Society (Two year term) | June 1999 – June 2001 |
| Letter of Appreciation “for the recruitment, support and encouragement offered to able students entering the field of medicine” from the University of Colorado School of Medicine Class of 2002. | Dec 16, 1999 |
| President-elect of the Rocky Mountain Neurosurgical Society, Inc. | 1999 – 2000 |
| Invited Topic Editor, Neurosurgical Focus (On-line Journal) “Immunotherapy of Brain Tumors” | Dec. 2000 |
| Selected as Guest Examiner, Oral Neurosurgical Board Examinations, American Board of Neurological Surgery, Houston, Tx. Nov. 2000 | 2000, 2006, 2012 |

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| President of the Rocky Mountain Neurosurgical Society, Inc. Listed in "Guide to Top Doctors-2002" Center for the Study of Services Washington, D.C. | 2000 – 2001 2002 |
| Listed in "Guide to America's Top Surgeons- Neurosurgery" Consumers' Research Council of America, 2002- 2003 Edition | 2002, 2003, 2006, 2007 |
| Honored Lifetime Listing in "Strathmore's Who's Who" Westbury, NY | 2002-2003, 2003-2004 |
| Listed in "The Best Doctors in America". Best Doctors, Inc. Aiken, S.C. | 2003-2004, 2005-2006 |
| Listed in Marquis' "Who's Who in America" | 2002, 2003, 2004, 2005, 2006, 2007, 2009 |
| Listed in Marquis' "Who's Who in American Education" | 2003 |
| Listed in Marquis' "Who's Who in the World" | 2004 |
| International Health Professional of the Year | 2004 |
| International Biographical Centre of Cambridge, England | |
| Listed in Marquis' "Who's Who in Medicine and Healthcare" | 2004-05, 2006-07 |
| Listed in "Who's Who Among Executives and Professionals in Healthcare" | 2005-06, 2006-07 |
| Listed in Academic Keys Who's Who in Medical Science Education | 2005 |
| Listed in "America's Top Doctors for Cancer | 2006 |
| Selected as Visiting Professor, U. of Texas Southwestern | March 2006 |
| Hooding request for Richard J. McMurtrey University of Colorado School of Medicine | May 2008 |
| Professor of Neurology, Department of Neurology University of Colorado School of Medicine | October 2010 |
| Peak Performer's Award, 8 th Annual Rocky Mountain Hospital Medicine Symposium | October 2010 |
| Visiting Professor, LSU Shreveport Dept of Neurosurgery | April 2011 |
| Peak Performer's Award, 8 th Annual Rocky Mountain Hospital Medicine Symposium | October 2011 |
| Selected as Guest Examiner, Oral Neurosurgical Board Examinations, American Board of Neurological Surgery, Houston, Tx. May 2012 | 2012 |

Society Memberships:

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| American Medical Association | 1986-present |
| Denver Medical Society | 1986-present |
| Colorado Medical Society | 1986-present |
| Colorado Neurosurgical Society | 1986-present |
| Secretary/Treasurer | 1995-1998 |
| President | 1999-2001 |
| Congress of Neurological Surgeons | 1988-present |
| American Association of Neurological Surgeons | 1990-present |
| Chairperson, Public Relations Committee | 4/2012 - 2015 |
| The Denver Academy of Surgery | 1990-present |
| The Rocky Mountain Neurosurgical Society, Inc. | 1990-present |
| Secretary | 1995-1998 |
| President-elect | 1999 – 2000 |
| President | 2000 - 2001 |
| American College of Surgeons, Fellow | 1991-present |
| The Pituitary Society | 1993-present |
| American Association for Cancer Research | 1995 – present |
| Society for Neuro-Oncology | 1996-present |
| Cancer League of Colorado | 1998-present |
| American Association for the Advancement of Science | 2000 -present |
| Society of Neurological Surgeons (elected lifetime position) | 2006 -present |
| American Society of Peripheral Nerve (elected lifetime position) | 2006 -present |
| Pituitary Network Association, Scientific Advisory Board | 2020 - present |

Committee Appointments

Institutional

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|---|--------------|
| Cerebral Death Committee, Univ. of Michigan | 1982-1983 |
| Intensive Care Unit Committee, Denver General Hosp. | L985-1957 |
| Chairman, Intensive Care Unit Committee, | L986 |
| Denver General Hospital | |
| Member, Management Committee, | 1988-present |
| Univ. of Colorado Cancer Center | |
| Member of the Hormones and Cancer Program, | 1988-1998 |
| Univ. of Colorado Cancer Center | |

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| Member of the Surgical Oncology Program, Univ. of Colorado Cancer Center | 1988-1995 |
| Pharmacy and Therapeutics Committee, Veteran's Administration Hospital Denver, Colorado | 1989-1990 |
| Department of Surgery Research Committee, Univ. of Colorado | 1990-present |
| Program Leader, Surgical Oncology Program, Univ. of Colorado Cancer Center | 1991-1995 |
| Representative to the University System Faculty Council University of Colorado | 1991-1993 |
| Co-director, Clinical Investigations Core, University of Colorado Cancer Center | 1992-1995 |
| Chairman, Protocol Review Committee, University of Colorado Cancer Center | 1992-2000 |
| Dean's Advisory Committee, University of Colorado Health Sciences Center | 1993-1994 |
| Co-director, Adult Clinical Oncology Program, University of Colorado Cancer Center | 1996-1999 |
| University Physicians, Inc.- Contract Committee University Hospital | 2000-present |
| University of Colorado Hospital "Operative and Other Procedures" Committee | 2002-2004 |
| UPI Board of Directors | 2004 – present |
| University of Colorado Hospital Medical Board | 2004 – present |
| UCHSC School of Medicine Executive Committee | 2004 – present |
| Secretary/Treasurer, University Physicians, Incorporated | 2007 - 2008 |
| Chair, Financial/Audit Committee, University Physicians, Incorporated | 2007 - 2008 |
| Executive Committee, University Physicians, Incorporated | 2007 – present |
| Sites of Practice Committee | 2009 - present |

Regional and National

Am Assoc of Neurological Surgeon / Congress of Neurological Surgeons

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| Scientific Program Subcommittee-Congress of Neurological Surgeons | 1985 |
| Membership Committee-Congress of Neurological Surgeons | 1990-1992 |
| Member, Joint Section on Tumors, American Assoc. of Neurological Surgeons and Congress of Neurological Surgeons | 1990-present |
| Chairman of the Membership Committee, Joint Section on Tumors, Am Assoc of Neurological Surgeons/ Congress of Neurological Surgeons | 1995-1997 |
| Program Moderator-Joint Section on Tumors Special Symposium | 10/4/96 |
| Program Committee - Joint Section on Tumors. | 1996-present |
| Nominated for the Executive Committee - Member-at-large Congress of Neurological Surgeons | 1997 |

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| Program Chairman - Special Symposium "Innovative Strategies for Treatment of Gliomas", Joint Section on Tumors, Am Assoc of Neurological Surgeons Annual Meeting, Philadelphia, PA. | April 1998 |
| Program Chairman – Tumor Section Special Symposium “The role of surgery in the treatment of high grade gliomas and metastatic brain tumors: An update for the Neurosurgeon on the front line.” CNS Annual Meeting – Denver, CO | October 2003 |
| Public Relations Committee – Chair | 2011 - 2015 |
| Membership Committee-Rocky Mountain Neurosurgical Society | 1990-1993 |
| Scientific Program Chairman, The Rocky Mountain Neurosurgical Society Inc. Twenty-Fifth Annual Meeting | June 1990 |
| Sports Medicine Committee-Colorado Medical Society | 1990-1992 |
| Member-at-Large, Executive Committee, Rocky Mountain Neurosurgical Society | 1992-1993 |
| Neurosurgery Advisory Group - Valley Lab Inc., Boulder, CO | 1994-1996 |
| Secretary, Rocky Mountain Neurosurgical Society | 1995-present |
| Secretary/Treasurer, Colorado Neurosurgical Society | 1995-present |
| Scientific Program Chairman, The Rocky Mountain Neurosurgical Society, Inc - Thirtieth Annual Meeting | June 1995 |
| Scientific Program Chairman, The Rocky Mountain Neurosurgical Society, Inc - Thirty-third Annual Meeting | June 1998 |
| Gliomas Outcome (GO) Project Advisory Board | 1998 – 2004 |
| Scientific Advisory Board – Cancer League of Colorado | 1998 – present |
| Brain Tumor Organ Site Committee, American College of Surgeons Oncology Group | 1999 – 2002 |
| Nominating Committee, Rocky Mountain Neurosurgical Society | 2001 - 2004 |
| Site Selection Committee, Society for Neuro-Oncology | 2001 - 2004 |
| AAMC Council of Faculty and Academic Societies Mission Alignment & Faculty Values Task Force | 2013-present |
| Society of Neurologic Surgeons (SNS) – Junior Resident “Boot Camp” | May 2015 |

International

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| GLI 328 International Advisory Board Meeting Novartis Pharmaceuticals Corporation, Zurich, Switzerland. | December 1997 |
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JOURNAL EDITORIAL BOARDS AND REVIEWS

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| Editorial Board <i>Surgical Neurology</i> | February 2005 - present |
| Ad Hoc Reviewer for: Cancer Surgical Neurology Journal of Neuro-Oncology Neurosurgery IEEE Transactions on Biomedical Engineering | |

PATENTS

#1 “Surgical Cannual” The Denver Corridor - A minimally invasive retraction system for access to
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seated intraparenchymal brain lesions. Kevin O. Lillehei, M.D. U.S. Patent #PCT/US04/16462.
Filed May 26, 2004

#2 “Guidance and Implantation of Catheters”. William D. Dalke, **Kevin Lillehei**, Thomas A Jellison,
Michael J, Gerber, James E. Matsuura, Stephen L. Warren. U.S. patent #US 8,600,479 B2,
December 3, 2013.

VISITING PROFESSORSHIPS

Department of Neurosurgery. Louisiana State University Health Sciences Center. Shreveport, LA. May 4, 2011

Department of Neurosurgery. University of Michigan “Julian Hoff Visiting Professor.” March 26, 2015

Department of Neurosurgery. Stanford. May 12, 2016

Endocrine Society Annual Meeting. “Meet the Professor.” New Orleans, LA. March 24, 2019

PUBLICATIONS

Journal Articles – Peer Reviewed

1. Chandler, WF, Knake, JE, MCGillicuddy, JE, **Lillehei, KO**, Silver, TM: Intraoperative Use of Real-time Itrasonography in Neurosurgery. [J Neurosurg 57:157-163, 1982](#)
2. **Lillehei, KO**, Chandler, WF, Knake JE: Real-time Ultrasound Characteristics of the Acute Intracerebral Hemorrhage as Studied in the Canine Model. Neurosurgery 14:48-51, 1984 PMID: 6694792
3. **Lillehei, KO**, Hoff, JT: Advances in the Management of Closed Head Injury. [Ann Emerg Med 14:789-795, 1985](#) PMID: 3896062
4. **Lillehei, KO**, Tranmer, BI, Kindt, GW: The Role of Colloid Volume Expansion in the Treatment of Cold Induced Vasogenic Edema. Surgical Forum 37: 517-519, 1986
5. **Lillehei, KO**, Head Trauma: Evaluation and Admission Criteria. Critical Decision in Emergency Medicine Vol 3, Lesson 15, pp 1-7, 1988
6. Nichol JS, **Lillehei KO**: Nerve injury associated with acute vascular trauma. Surg Clin NA 6: 837-852, 1988 PMID: 3046009
7. Samuels MH, Wood WM, Gordon DF, Kleinschmidt-DeMasters BK, **Lillehei KO**, Ridgway EC: Clinical and Molecular Studies of a Thyrotropin-Secreting Pituitary Adenoma. J Clin Endocrinol Metab 68(6):1211-1215, 1989.
8. Kruse CA, Mitchell DH, **Lillehei KO**, Johnson SJ, McCleary EL, Moore GE, Mitchell DH, Waldrop S, Mierau G: Interleukin-2 activated lymphocytes from brain tumor patients. A comparison of two preparations generated in vitro. [Cancer 64: 1629-1637, 1989](#). PMID: 2790675
9. **Lillehei KO**, Kruse, CA, Mitchell DH, Johnson SJ, McCleary EL: Adoptive immunotherapy of recurrent glioma using Interleukin-2 stimulated lymphocytes. Surgical Forum 40: 493-495, 1989.
10. **Lillehei KO**, Nichols JS, Kindt, GW: Emergency management of neurotrauma, Is there a place for Intracranial Pressure Monitoring in the Emergency Department? Top Emerg Med 11:84-87, 1990.

11. Samuels MH, **Lillehei KO**, Kleinschmidt-DeMasters BK, Stears J, Ridgway EC: Patterns of Pulsatile Pituitary Glycoprotein Secretion in Central Hypothyroidism and Hypogonadism. *J Clin Endocrinol Metab* 70: 391-395, 1990.
12. Kruse CA, **Lillehei KO**, Mitchell DH, Kleinschmidt-DeMasters BK, Bellgrau D: Analysis of Interleukin-2 and various effector cell populations in adaptive immunotherapy of rat 9L gliosarcoma: Allogeneic cytotoxic T lymphocytes prevent tumor take. [Proc. Natl Acad of Sci USA, 87: 9577-9581, 1990](#). PMID: 2263613
13. **Lillehei KO**, Mitchell DH, Johnson SD, McCleary EL, Kruse CA: Long-term follow-up of recurrent glioblastoma patients treated with adjuvant adoptive immunotherapy. *Neurosurgery*, 28: 16-23, 1991. PMID: 1994273
14. Samuels MH, Henry P, Kleinschmidt-DeMasters BK, **Lillehei KO**, Ridgway EC: Pulsatile glycoprotein hormone secretion in glycoprotein producing pituitary tumors. *J Clin Endocrinol Metab* 73:1281-1288, 1991.
15. Samuels MH, Henry R. Kleinschmidt-DeMasters BK, **Lillehei KO**, Ridgway EC: Pulsatile prolactin secretion in hyperprolactinemia due to presumed pituitary stalk interruption. *J Clin Endocrinol Metab* 73:1289-1293, 1991
16. Kelly JP, Nichols JS, Filley CM, **Lillehei KO**, Rubinstein D, Kleinschmidt-DeMasters BK: Concussion in Sports: Guidelines for the Prevention of Catastrophic Outcome. [JAMA 266:2867-2869, 1991](#). PMID: 1942455
17. Reusch JEB, Kleinschmidt-DeMasters BK, **Lillehei KO**, Ruppe D, Gutierrez-Hartmann A: Pre-operative Diagnosis of Lymphocytic Hypophysitis (Adenohypophysis) unresponsive to short course Dexamethasone-Case Report. [Neurosurgery 30:268-272, 1992](#) PMID: 1545900
18. Kruse CA, Mitchell DH, Kleinschmidt-DeMasters BK, Morse FW, Spector E, **Lillehei KO**: Characterization of Continuous Human Glioma Cell Line DBTRG-O5MG: Growth Kinetics, Karyotype, Receptor Expression, and Tumor Suppressor Gene Analyses. [In Vitro Cell Dev. Biol. 28A:609-614, 1992](#) PMID: 1331021
19. Kruse CA, Mitchell DH, Kleinschmidt-DeMasters BK, Bellgrau D, Eule JM, Parra JR, Kong Q, **Lillehei, KO**: Systemic Chemotherapy Combined with Local Adoptive Immunotherapy Cures Rats Bearing 9L Gliosarcoma. *J. Neuro-Oncology*, 15:97-112, 1993. PMID: 8509824
20. Hazuka MB, Burleson WD, Stroud DN, Leonard CE, **Lillehei KO**, Kinzie JJ: Multiple Brain Metastases Are Associated With Poor Survival In Patients Treated With Surgery and Radiotherapy. [J Clin Oncol 11:369-373,1993](#). PMID: 8426215
21. **Lillehei KO**, Kleinschmidt-DeMasters BK, Mitchell DH, Spector EB, Kruse CA: Alveolar Soft Part Sarcoma: Unusually Long Interval Between Presentation and Brain Metastasis. *Hum Pathol* 24:1030-1034,1993. PMID: 8253458
22. Doran SE, Papadopoulos SM, Ducker TB, **Lillehei KO**: MRI Documentation of Coexistent Traumatic Locked Facets of the Cervical Spine and Disc Herniation. [J Neurosurg 79:341-345, 1993](#). PMID: 8360729
23. **Lillehei KO**, Johnson SD, McLeary EL, Mitchell DH, Schiltz PM, Kruse CA: Adjuvant Adoptive Immunotherapy for Pediatric Recurrent Brain Tumors [Letter]. *Online J Curr Clin Trials [Serial Online]* 1993. December 29; 1993. (Doc No 111) PMID: 8305997
24. **Lillehei KO**, Robinson MN: A Critical Analysis of the Fatal Injuries Suffered in the Continental Flight 1713 Airline Disaster: Evidence in Favor of the Need for Improved Passenger Restraint Systems. [J Trauma 37\(5\): 826-830,1994](#). PMID: 7966484

25. Levy AS, **Lillehei KO**, Rubenstein D, Stears J: Subarachnoid Neurocysticercosis with Occlusion of Major Intracranial Arteries: Case Report. [Neurosurgery 36:183-188, 1995](#). PMID: 7708157
26. Hart, MJ, **Lillehei KO**: Management of Posterior Cranial Fossa Meningiomas. *Annals of Otolaryngology and Laryngology* 104(2):105-116, 1995. PMID: 7857011
27. Kleinschmidt-DeMasters BK, **Lillehei KO**: Radiation Induced Meningioma with 63 Year Latency Period Case Report [J. Neurosurg. 82:487-488, 1995](#). PMID: 7861229
28. Kleinschmidt DeMasters BK, **Lillehei KO**: Intraneural Neurothekeoma: Case Report. [Neurosurgery 37:333-335, 1995](#). PMID: 7477789
29. Crawford TS, Kleinschmidt-DeMasters BK, **Lillehei KO**: Primary Intraosseous Meningioma: Case Report and Review of the Literature. [J Neurosurgery 83:912-915, 1995](#). PMID: 7472564
30. Kleinschmidt-DeMasters BK, Conway D, Franklin WA, **Lillehei KO**, Kruse CA: Neural Cell Adhesion Molecule Expression In Human Pituitary Adenomas. *J. Neuro-Oncology* 25:205-213, 1995. PMID: 8592170
31. Kleinschmidt-DeMasters BK, **Lillehei KO**, Stears JC: The Pathologic, Surgical and and MR Spectrum of Rathke Cleft Cysts. [Surg. Neurol 44:19-27, 1995](#). PMID: 7482247
32. **Lillehei KO**, Kleinschmidt-DeMasters B, Crawford TS: Response: Interosseous Meningioma-Letter to the Editor. *JNS* 85:363, 1996
33. **Lillehei KO**: A Review of the Management of Peripheral Nerve Entrapment Syndromes. *Neurosurgical Quarterly* 6(4): 225-250, 1996.
34. **Lillehei KO**, Kong Q, Kleinschmidt-DeMasters BK, Withrow SJ: Efficacy of Intralesional Cisplatin Impregnated Biodegradable Polymer for the Treatment of 9L Gliosarcoma in the Rat. [Neurosurgery 39\(6\): 1191-1199, 1996](#). PMID: 8938774
35. Kleinschmidt-DeMasters BK, Markham N, **Lillehei, KO**, Shroyer KR: Differential Telomerase Expression in Human Primary Intracranial Tumors. *Am J Clin Path* 107(5):548-554, 1997. PMID: 9128267
36. Kong Q, Kleinschmidt-DeMasters BK, **Lillehei, KO**: Intralesionally Implanted Cisplatin Cures Primary Brain Tumors in Rats. [J Surg Onc. 64:268-273, 1997](#). PMID: 9142181
37. Kruse CA, Cepeda L, Owens B, Johnson SD, Stears J, **Lillehei KO**: Treatment of recurrent glioma with intracavitary alloreactive cytotoxic T lymphocytes and interleukin-2. *Cancer Immunol Immunother* 45: 77-87, 1997. PMID: 9390198
38. Kleinschmidt-DeMasters BK, Mierau GW, Sze C, Breeze RE, Greffe B, **Lillehei KO**, Stephens JK: Unusual dural and skull-based mesenchymal neoplasms: A report of four cases. *Human Pathol* 29:240-245, 1998. PMID: 9496826
39. Kleinschmidt-DeMasters BK, Hashizumi T, Sze Chun-I, **Lillehei KO**, Shroyer KR. Telomerase expression shows differences across multiple regions of oligodendroglioma versus high grade astrocytomas but shows correlations with Mib-1 labeling. [J Clin Pathol 51\(4\): 284-293, 1998](#). PMID: 9659240
40. Kong Q, **Lillehei KO**: Antioxidant Inhibitors for Cancer Therapy. [Medical Hypotheses 51:405-409, 1998](#). PMID: 9848469

41. Duke BJ, Levy AS, **Lillehei KO**: Cavernous Angiomas of the Cauda Equina: Case Report and Review of the Literature. [Surg Neurol 50:442-445, 1998](#). PMID: 9842868
42. Watters MR, Stears JC, Osborn AG, Turner GE, Burton BS, **Lillehei KO**, Yuh WTC, Transdural Spinal Cord Herniation: Imaging and Clinical Spectra. *AJNR* - 19:1337-1344, 1998
43. **Lillehei KO**, Liu Y, Kong Q: Brain tumor immunology. *Contemporary Neurosurgery* 20(14): 1-8, 1998.
44. **Lillehei KO**, Kirschman DL, Kleinschmidt-DeMasters BK, Ridgway EC: Reassessment of the role of radiation therapy in the treatment of endocrine inactive pituitary macroadenomas. [Neurosurgery - 43:432-439, 1998](#). PMID: 9733298
45. Kleinschmidt-DeMasters BK, **Lillehei KO**: Pathological correlates of pituitary adenomas presenting with apoplexy. *Hum Pathol* 29:1255-1265, 1998. PMID: 9824104
46. Casey SO, Rubinstein D, **Lillehei KO**, Alberico RA, Ozsvath RR, Cajade-Law AG, Weprin BE, Michel E, Truwit CL: Integral and shell-MIP display algorithms in MR and CT three-dimensional methods of the brain surface. [Am J Neuroradiol 19:1513-1521, 1998](#). PMID: 9763387
47. Kong Q, DeMasters BK, **Lillehei KO**: Intralesionally implanted cisplatin plus systemic carmustine for the treatment of brain tumor in rats. [J Surg Oncology 69:76-82, 1998](#). PMID: 9808509
48. McDermott MT, Haugen BR, Gordon DF, Wood WM, Brown NS, Bauer CA, Garrity MJ, Kleinschmidt-DeMasters BK, **Lillehei KO**, Samuels MH, Bright TM, Ridgway EC: Reverse transcription polymerase chain reaction analysis of pituitary hormone, Pit-1 and steroidogenic factor-1 messenger RNA expression in pituitary tumors. [Pituitary 2:217-224, 1999](#). PMID: 11081157
49. **Lillehei KO**, Liu Y, Kong Q: Current perspectives in immunotherapy. *Ann Thorac Surg* 68:S28-33, 1999. PMID: 10505988
50. Ng K, Liu Y, Kong Q, **Lillehei K**: Latest advances in the understanding of active-specific immunotherapy for brain tumors. *Polymer Preprints* 40: 279-280, 1999
51. Kong Q, Beel JA, **Lillehei KO**: A threshold concept for cancer therapy. [Medical Hypotheses 55:29-35, 2000](#). PMID: 11021322
52. Kleinschmidt-DeMasters BK, Pflaumer SM, Mulgrew TD, **Lillehei KO**: Sinonasal teratocarcinoma ("mixed olfactory neuroblastoma – craniopharyngioma") presenting with syndrome of inappropriate secretion of antidiuretic hormone. *Clin Neuropathol.* 19:63-69, 2000. PMID: 10749286
53. Liu Y, Ng K, **Lillehei KO**: Time course analysis and modulating effects of established brain tumor on active-specific immunotherapy. [Neurosurg Focus 9\(6\): 1-9, 2000](#). PMID: 16817686
54. Liu Y, Cho C, Yan X, Henthorn TK, **Lillehei KO**, Cobb WN, Ng KY: Ultrasound-induced hyperthermia increases cellular uptake and cytotoxicity of P-glycoprotein substrates in multi-drug resistant cells. *Pharm Res.* 18(9): 1255-1261, 2001.
55. Liu Y, **Lillehei KO**, Cobb WN, Christians U, Ng KY: Overcoming MDR by ultrasound-induced hyperthermia and P-glycoprotein modulation. *Biochem Biophys Res Commun* 289:62-68, 2001.
56. Cho CW, Liu Y, Cobb WN, Henthorn TK, **Lillehei KO**, Christians U, Ng KY: Ultrasound-induced mild hyperthermia as a novel approach to increase drug uptake in brain microvessel endothelial cells. [Pharm Res. 19\(8\): 1123-1129, 2002](#). PMID: 11683237

57. Liu Y, Ng K, **Lillehei KO**: Cell-mediated immunotherapy: A new approach to the treatment of malignant gliomas. [Cancer Control 10\(2\): 138-147, 2003](#). PMID: 12712008
58. Kleinschmidt-DeMasters BK, Heinz D, McCarthy PJ, Bobak JB, **Lillehei KO**, Schroyer KR: Survivin in glioblastomas. Protein and messenger RNA expression and comparison with telomerase levels. [Arch Pathol Lab Med. 127: 826-833, 2003](#). PMID: 12823036
59. Chang SM, Parney IF, McDermott M, Barker FG 2nd, Schmidt MH, Huang W, Laws ER Jr, **Lillehei KO**, Bernstein M, Brem H, Sloan AE, Berger M and the Glioma Outcomes Investigators: Perioperative complications and neurological outcomes of first and second craniotomy among patients enrolled in the Glioma Outcomes (GO) Project. [J Neurosurg. 98\(6\):1175-1181, 2003](#). PMID: 12816260
60. Filley CM, Kleinschmidt-DeMasters BK, **Lillehei KO**, Damek DM, Harris JG: Gliomatosis cerebri: neurobehavioral and neuropathological observations. [Cogn Behav Neurol. 16\(3\):149-159, 2003](#). PMID: 14501536
61. Kleinschmidt-DeMasters BK, **Lillehei KO**, Breeze RE: Neoplasms involving the Central Nervous System in the older old. [Human Path 34:1137-1147, 2003](#). PMID: 14652815
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Abstracts

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80. Damek, D.M., **Lillehei, K.O.**, Kleinschmidt-DeMasters, B.K.. Prognosis and response to treatment of pleomorphic xanthoastrocytoma with anaplastic features. Neuro-Onc 2009; 11:630, Society of Neuro-Oncology Annual Meeting Orleans, LA, October, 2009
81. Strom, T, Kleinschmidt-DeMasters, B.K., Donson, A.M., Foreman, N.K., **Lillehei, K.O.** Rare nerve lesions of nonneuroepithelial origin: A 17-year retrospective series. Neuro-Onc 2009; 11:685, Society of Neuro-Oncology Annual Meeting New Orleans, LA, October, 2009
82. Kleinschmidt-DeMasters, B.K., Assiri, A., Birks, D., Newell, K., Moore, W., **Lillehei, K.O.** Epithelioid versus rhabdoid gliomas are distinguished by monosomy 22 and immunohistochemical expression of INI-1 but not claudin 6. 49th Annual Meeting of Canadian Association of Neuropathologists, Cape Breton, Oct. 14-17, 2009
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84. Knox A., Edwards, M., Xu, M., Geraci, M., Kleinschmidt-DeMasters, B.K., Lillehei, K., Wierman, M.E. Developing Biomarkers of Pituitary Tumor Progression and Recurrence. ENDO 2010: The 92nd Annual Meeting & Expo, San Diego, CA, June 2010
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86. Borges, M.T., **Lillehei, K.O.**, Kleinschmidt-DeMasters, B.K. Spindle cell oncocytoma with late recurrence and unique neuroimaging characteristics due to recurrent subclinical intratumoral bleeding. Rocky Mountain Neurosurgical Society Inc., 45th Annual Meeting, Telluride, CO, June 2010
87. Borges, M.T., Madsen, H., Knox, A., Michaelis, K., Lillehei, K.O., Wierman, M., Kleinschmidt-DeMasters BK. Giant Pituitary Adenomas: Neuroimaging and Literature Review. Rocky Mountain Neurosurgical Society Inc., 45th Annual Meeting, Telluride, CO, June 2010
88. Kleinschmidt-DeMasters, B.K., Madsen, H., Borges, M.G., **Lillehei, K.O.** McCune-Albright Syndrome. Rocky Mountain Neurosurgical Society, Inc., 45th Annual Meeting, Telluride, CO, June 2010
89. Knox, A.J., Edwards, M.G., Kiseljak-Vassiliades, K., Xu, M., Michaelis, K.A., Kleinschmidt-DeMasters, B.K., **Lillehei, K.O.**, Wierman, M.E. Gene amplification and upregulation of mammalian STE20-like protein kinase 4 (Mst4) reveals novel candidate gene in human pituitary tumorigenesis. Front Range Neuroscience Group Annual Meeting, Ft. Collins, CO, December, 2010
90. Kiseljak-Vassiliades, K., Xu, M., Knox, A.J., Edwards, M.G., Michaelis, K.A., Kleinschmidt-DeMasters, B.K., **Lillehei, K.O.**, Geraci, M., Wierman, M.E. Pro-Survival and Tumorigenicity of LAG1 Homolog Ceramide Synthase 6 (LAS1) in Gonadotrope Pituitary Tumors. Endocrine Society 2011 Meeting, Boston, MA, June, 2011

91. Michaelis, K.A., Knox, A.J., Xu, M., Kiseljak-Vassiliades, K., Edwards, M.G., Kleinschmidt-DeMasters, B.K., **Lillehei, K.O.**, Geraci, M., Wierman, M.E.. Repression of GADD45 β in Human Gonadotrope Pituitary Tumors: Role in Proliferation, Survival and Tumorigenesis. Endocrine Society 2011 Meeting, Boston, MA, June, 2011
92. Knox, A.J., Xu, M., Michaelis, K.A., Kleinschmidt-DeMasters, B.K., **Lillehei, K.O.**, Wierman, M.E. Reprimo (RPI) Downregulated in Human Gonadotrope Pituitary Tumors and Stabilized during Cellular Stress. Endocrine Society 2 Meeting, Boston, MA, June, 2011
93. Kiseljak-Vassiliades, K., Xu, M., Knox, A., Edwards, M., Michaelis, K., Kleinschmidt-DeMasters, Bette, **Lillehei, K.O.**, Geraci, M., Wierman, M. Pro-Survival and Tumorigenicity of LAG1 Homolog Ceramide Synthase 6 (CerS6) in Gonadotrope Pituitary Tumors. UCHSC Cancer Retreat, September, 2011
94. Madsen, H., Borges, T.M., Knox, A.J., Michaelis, K.A., Xu, M., **Lillehei, K.O.**, Wierman, M.E., and Kleinschmidt-DeMasters, B.K. Giant Pituitary Adenomas: pathologic-radiographic correlations and lack of role for p53 and MIB-labeling. AANP, Seattle, June, 2011.
95. Serracino, H., Khalil, A., Damek, D., Ney, D., **Lillehei, K.O.**, Kleinschmidt-DeMasters, B.K.. Gliomas arising in patients with multiple sclerosis have no distinctive genetic features. USCAP Annual Meeting, Vancouver, British Columbia, Canada, March 2012
96. Schmidt, Y., Kleinschmidt-DeMasters, B.K., Aisner, D., **Lillehei, K.O.**, Damek, D. BRAF V600E mutation is seen in adult pleomorphic xanthoastrocytoma with anaplastic features but does not predict prognosis for individual patients. USCAP Annual Meeting, Vancouver, BC, March, 2012.
97. Kiseljak-Vassiliades K, Shafi S, Xu Mei, Phang Tzu, Kleinschmidt-DeMasters BK, **Lillehei KO** et al. Clinical and genomic profiling of growth hormone tumor subtypes to identify mechanisms of disease pathogenesis, aggressiveness, and response to therapy. Endocrine Society 2012 Meeting, Houston, June 2012
98. Schmidt Y, Kleinschmidt-DeMasters BK, Aisner DL, **Lillehei KO**, Damek D. Anaplastic PXA in adults: case series with clinicopathologic and molecular features. 101st Annual United States Canadian Pathology Meeting. Vancouver, BC March 2012
99. Kiseljak-Vassiliades K, Carlson NE, Borges MT, Kleinschmidt-DeMasters BK, **Lillehei KO**, Kerr JM, Wierman ME. Histological Subtyping of Growth Hormone Pituitary Tumors Predicts Response to Surgical and Medical Therapy in Acromegaly. ICE/ENDO 2014, June 21-24, 2014 Chicago, Illinois
100. Xiong W, Xu Mei, Kiseljak-Vassiliades K, Colgan S, Brodsky KS, Eltzschig H, Kleinschmidt-DeMasters BK, **Lillehei KO**, Wierman ME. Mechanisms of Mammalian STE20-like Kinase 4 (MST4) to Promote Pituitary Tumor Cell Survival and Proliferation Under Hypoxic Conditions ICE/ENDO 2014, June 21-24, 2014 Chicago, Illinois
101. Kleinschmidt-DeMasters BK, Lillehei KO. Radiation-induced cerebral vascular malformations at biopsy. 2016 AANP Annual Meeting, June 16-19, Baltimore MD
102. Prince E, Whelan R, Donson A, Staulcup S, **Lillehei K**, Foreman N, Massimi L, Handler M, Hankinson TC. Transcriptomic and proteomic comparison of pediatric and adult adamantinomatous craniopharyngioma. Oral Presentation. 18th International Symposium on Pediatric Neuro-Oncology. Denver, USA, 1 July 2018

Invited Lectures

Local

PITUITARY CUSHING'S DISEASE. Endocrinology Grand Rounds, UCHSC November, 1985, Denver, Colorado.

DIAGNOSIS AND TREATMENT OF PITUITARY PROLACTINOMAS. Neurology Neurosurgery Grand Rounds, UCHSC January 22, 1986, Denver, Colorado.

NEUROLOGICAL MANAGEMENT OF ACUTE HEAD INJURIES. Surgery Grand Rounds, UCHSC July 19, 1986, Denver, Colorado

INTRACRANIAL PRESSURE MANAGEMENT. Colorado Trauma Care Resource Institute - Second Annual Trauma Symposium August 9, 1986, Vail, Colorado.

PEDIATRIC HEAD INJURIES. 1987 Current Challenges in Pediatric Nursing May 13, 1987, Denver, Colorado.

THE ALPHA AND BETA SUB-UNIT GLYCOPROTEIN MARKER IN THE NON-SECRETING PITUITARY ADENOMA. Rocky Mountain Neurosurgical Society. Twenty-First Annual meeting June 26, 1987, Keystone, Colorado.

SURGICAL APPROACH TO PROLACTIN SECRETING TUMORS "THE PITUITARY IN ASPEN" review course. July, 1987, Aspen, Colorado.

EVALUATION OF HEAD INJURIES - 1st Annual Sports Medicine Symposium University of Colorado August 22, 1987.

EXTINCTION OF THE PITUITARY CHROMOPHOBE ADENOMA "Neurosurgery in the Rockies" Conference - Univ. of Colorado, March 8, 1988, Vail, Colorado.

IMMUNOTHERAPY FOR BRAIN TUMORS: Swedish Hospital Neuroscience Conference Sept, 1988.

SPORTS RELATED CLOSED HEAD AND BRACHIAL PLEXUS STRETCH INJURIES. Guest Lecturer to the student trainers. University of Colorado Athletic Program, November 15, 1988, Boulder, Colorado.

IMMUNOTHERAPY FOR BRAIN TUMORS: A New Era: Neurology-Neurosurgery Grand Rounds, University of Colorado Health Sciences Center November 30, 1988.

A TWO-YEAR FOLLOW-UP ON THE USE OF INTRACAVITARY INTERLEUKIN-2 AND ACTIVATED T-LYMPHOCYTES IN THE TREATMENT OF MALIGNANT ASTROCYTOMAS University of Colorado "NEUROSURGERY IN THE ROCKIES" CONFERENCE March 8, 1989.

NEUROSURGICAL ANALYSIS OF THE CONTINENTAL FLIGHT 1713 DISASTER. American Association of Neuroscience

Nurses-Rocky Mountain Chapter, Denver, Colorado. January 9, 1990.

UNUSUAL PARASELLAR LESIONS. Neurology-Neurosurgery Grand Rounds, University of Colorado Health Sciences Center, Denver, Colorado, January 31, 1990.

INITIAL ASSESSMENT OF A PATIENT WITH A NEUROVASCULAR DISORDER-PHYSICIAN ASSESSMENT. Neuroscience Nursing in the Rockies Conference March 5, 1990, Vail, Colorado.

NORMAL PRESSURE HYDROCEPHALUS - A PANEL DISCUSSION. Geriatric Grand Rounds Denver Veterans Administration Hospital, June 4, 1990.

EXPERIENCE WITH PETROSAL SINUS SAMPLING IN THE DIAGNOSIS AND TREATMENT OF CUSHING'S DISEASE. Twenty-Fifth Annual Meeting of the Rocky Mountain Neurosurgical Society, Inc., Vail, Colorado, June 18, 1990.

BRAIN TUMORS. St. Anthony's Hospital Basic Neuro Core Curriculum, Denver, Colorado, July 9, 1990.

DIAGNOSIS AND TREATMENT OF UPPER EXTREMITY AND BRACHIAL PLEXUS INJURIES. Neurology-Neurosurgery Grand Rounds, University of Colorado Health Sciences Center, November 28, 1990.

COMPLICATIONS ASSOCIATED WITH HALO VEST APPLICATION FOR CERVICAL SPINE FRACTURES CURRENT TECHNIQUES IN HALO APPLICATION WORKSHOP, University of Colorado Health Sciences Center, Denver, Colorado, September 17, 1991.

DIAGNOSIS AND MANAGEMENT OF CHIARI MALFORMATIONS. 1991 Annual Conference of the American Association of Neuroscience Nurses-Rocky Mountain Chapter, October 4, 1991. Denver, Colorado.

A NEUROSURGICAL ANALYSIS OF THE CONTINENTAL AIRLINE DISASTER. Emergency Medicine Grand Rounds. University of Colorado Health Sciences Center, Denver, Colorado, December 4, 1991.

CHIARI I MALFORMATION: IS THERE AN ASSOCIATION WITH SCOLIOSIS? 2nd Annual Colorado Spine Symposium, Aurora, Colorado, November 15, 1991.

CUSHING'S SYNDROME: UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER EXPERIENCE AND NEW INSIGHTS INTO MECHANISMS OF DISEASE AND DIAGNOSIS. Endocrinology Grand Rounds, University of Colorado Health Sciences Center, Denver, Colorado, June 10, 1992.

CUSHING'S DISEASE: THE UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER EXPERIENCE. Neurology-Neurosurgery Grand Rounds, University of Colorado Health Sciences Center, Denver, Colorado, August 12, 1992.

CENTRAL NERVOUS SYSTEM TUMORS: APPROACH TO DIAGNOSIS AND TREATMENT. Valleylab Surgical Symposium, Boulder, Colorado, November 20, 1992.

LOCAL SUSTAINED RELEASE OF CISPLATIN FROM BIODEGRADABLE POLYMER FOR TREATMENT OF INTRACRANIAL GLIOMA. University of Colorado "Neurosurgery in the Rockies" Meeting. Vail, Colorado, March 9, 1993.

BRAIN TUMOR THERAPY: PAST, PRESENT AND FUTURE (KEYNOTE SPEAKER). Brain Tumors: Team Up for Triumph Symposium. Lakewood, Colorado, May 1, 1993.

NEW APPROACHES TO AN OLD TUMOR: THE NON-SECRETORY PITUITARY MACROADENOMA. Neurology-Neurosurgery Grand Rounds. University of Colorado Health Sciences Center, Denver, Colorado, June 2, 1993.

PERIPHERAL NEUROFIBROMAS: SYMPTOMS AND MANAGEMENT. Neurofibromatosis Pre-Symposium Seminar. The Denver Children's Hospital, Denver, Colorado, October 15, 1993.

CUSHING'S DISEASE: A MULTISPECIALTY APPROACH TO A COMPLEX PROBLEM. Medicine Grand Rounds, University of Colorado Health Sciences Center, Denver, Colorado, December 15, 1993.

BRAIN TUMOR THERAPY: PAST, PRESENT AND FUTURE. Grand Rounds, Lutheran Medical Center, Lakewood, Colorado, January 25, 1994.

MOLECULAR BIOLOGY OF GLIOMAS AND IMPLICATIONS FOR FUTURE RESEARCH. "Malignant Gliomas: Challenges of Patient Management" - Nursing Conference. University of Colorado Health Sciences Center, Denver, Colorado, January 28, 1994.

PITUITARY TUMORS. "Neuroscience Nursing in the Rockies" - Nursing Conference, Vail, Colorado, March 7, 1994.

ACUTE NECK TRAUMA; FROM WHIPLASH TO PARALYSIS. 18th Annual Primary Musculoskeletal Care Conf. Breckenridge, CO, August 22, 1994.

THE CRASH OF CONTINENTAL 1713:: LESSONS IN POLY-TRAUMA. 18th Annual Primary Musculoskeletal Care Conf., Breckenridge, Colorado, August 22, 1994.

NEW DIRECTIONS IN THE TREATMENT OF HIGH GRADE GLIOMAS. Neurology-Neurosurgery Grand Rounds, University of Colorado Health Sciences Center, Denver, Colorado, November 2, 1994.

IMMUNOTHERAPY: PAST, PRESENT AND FUTURE. Brain Tumors: New Frontiers Symposium. Colorado Neurological Institute Denver, Colorado, May 29, 1995.

IDIOPATHIC SPINAL CORD HERNIATION; AN UNUSUAL CASE REPORT. University of Colorado "Neurosurgery in the Rockies" Meeting. Vail, Colorado, February 28, 1996.

NEUROSURGICAL APPROACH TO NEUROFIBROMATOSIS. NEUROFIBROMATOSIS SUPPORT GROUP-Colorado Chapter of the National Neurofibromatosis Foundation, Inc., October 19, 1996.

NEUROFIBROMATOSIS REVISITED. Dept. of Neurology Grand Rounds. University of Colorado Health Sciences Center, Denver, Colorado. October 30, 1996.

NEUROSURGICAL APPROACH TO NEUROFIBROMATOSIS. NEUROFIBROMATOSIS SUPPORT GROUP-Colorado Chapter of the National Neurofibromatosis Foundation, Inc., October 19, 1996.

PERIPHERAL NERVE INJURY ASSOCIATED WITH SURGERY OF THE PROSTATE University of Colorado "Horizons in Surgery" Meeting, Breckenridge, CO. March 10, 1997.

TREATMENT OF LOW GRADE GLIOMAS: ROLE OF AGGRESSIVE SURGICAL RESECTION. Dept of Neurology Grand Rounds, University of Colorado Health Sciences Center, Denver, CO. November 12, 1997.

NEUROSURGICAL TREATMENT OF BRAIN TUMORS. Third Biennial Team Up for Triumph Patient & Family Brain Tumor Conference. Denver, CO. October 17, 1997.

GENE THERAPY. Third Biennial Team Up for Triumph Patient & Family Brain Tumor Conference. Denver, CO. October 17, 1997.

VACCINE THERAPY FOR BRAIN TUMORS. University of Colorado Cancer Center Community Advisory Board Meeting. Denver, CO. February 18, 1998.

BRACHIAL PLEXUS INJURY. Orthopedic Hand and Upper Extremity Grand Rounds. Dept of Orthopedics, University of Colorado Health Sciences Center, Denver, CO. February 27, 1998.

IMMUNOTHERAPY: Past and Present. University of Colorado "Neurosurgery in the Rockies" Meeting. Vail, Colorado. March 5, 1998.

NEW FRONTIERS OF TUMOR THERAPY: IMMUNOTHERAPY AND GENE THERAPY. University of Colorado Brain Tumor Patient & Family Support Group. Denver, CO. April 1, 1998.

USE OF FRAMELESS STEREOTACTIC GUIDANCE FOR TREATMENT OF LOW GRADE GLIOMAS Special Symposium- Memorial Hospital, Colorado Springs, CO. April 9, 1998.

UNUSUAL PARASELLAR LESIONS: Department of Neurology Grand Rounds, University of Colorado Health Sciences Center, Denver, Colorado, February 3, 1999.

TUMOR VACCINES FOR BRAIN TUMORS: University of Colorado Cancer Center Community Advisory Board Meeting, Denver, Colorado, February 17, 1999.

UTILITY OF RADIATION THERAPY IN THE TREATMENT OF PITUITARY TUMORS: Division of Endocrinology, Metabolism and Diabetes Grand Rounds, University of Colorado Health Sciences Center, Denver, Colorado, April 7, 1999.

CURRENT MANAGEMENT OF BRAIN TUMORS AT COLORADO UNIVERSITY: 1999 Meeting of the Society of Neurological Surgeons, Colorado Springs, Colorado, May 16, 1999.

UNUSUAL PARASELLAR LESIONS: Basic Neurosciences Lecture Series, Department of Neurology, University of Colorado Health Sciences Center, Denver, Colorado, July 14, 1999.

CURRENT STATUS OF TUMOR VACCINES: 1999 Macromolecular Drug Delivery Conference, Breckenridge, Colorado, July 17, 1999.

GENE THERAPY: St Mary's Academy Senior High Molecular Biology Course, Englewood, Colorado, December 7, 1999.

TREATMENT OF BRACHIAL PLEXUS INJURIES. University of Colorado, Department of Orthopedics Hand Conference. March 24, 2000.

SURGICAL TREATMENT OF MALIGNANT GLIOMAS: PAST, PRESENT AND FUTURE. The Fourth Biennial Rocky Mountain Brain tumor Conference, "Team Up for Triumph". Arvada, Colorado. May 5, 2000.

PERSPECTIVES ON IMMUNOTHERAPY FOR THE TREATMENT OF MALIGNANT GLIOMA. Neurology Grand Rounds. Department of Neurology, University of Colorado Health Sciences Center, Denver, Colorado, March 15, 2000.

STRATEGIES FOR TREATMENT OF ENDOCRINE ACTIVE PITUITARY ADENOMAS: Neurosurgery Grand Rounds, Department of Neurosurgery, University of Colorado health Sciences Center, Denver, Colorado. July 18, 2000.

DIAGNOSIS AND TREATMENT OF PERIPHERAL NERVE INJURIES. Neurology Grand Rounds. Department of Neurology, University of Colorado Health Sciences Center, Denver, Colorado, March 27, 2002.

NOVEL TREATMENT FOR HIGH GRADE GLIOMAS. University of Colorado Cancer Center Community Advisory Board. University of Colorado Health Sciences Center. July 17, 2002.

NEW HORIZONS IN TREATMENT FOR PATIENTS WITH GLIOBLASTOMA MULTIFORME. Neuro-ICU Nursing Teaching Conference, .University of Colorado Health Sciences Center. June 8, 2004

MINIMAL INVASIVE CRANIAL NEUROSURGERY. 51st Annual Family Practice Review. Nov. 4, 2005.

WHAT IS HAPPENING IN THE WORLD OF BRAIN TUMORS? Premedica 32nd Annual Symposium, Colorado State University, Fort Collins, Feb. 18, 2006.

SURGICAL TREATMENT OF PITUITARY TUMORS. University of Colorado Health Sciences Center "Pituitary Patient Education Day." Aurora, CO. November 11. 2006.

THE SUPRA-ORBITAL MINIMALLY-INVASIVE SKULL BASE APPROACH. The first annual Department of Neurosurgery Skull Base dissection Course. University of Colorado Health Sciences Center, Aurora, CO. January 13, 2007.

SURGICAL MANAGEMENT OF PITUITARY REGION MASSES, Pituitary Patient Education Day, University of Colorado Hospital, Aurora CO February 2, 2008

BRAIN TUMORS. Physical Medicine & Rehabilitation presentation to residents, fellows & medical students. University of Colorado School of Medicine, Aurora CO May 7, 2008

MULTIDISCIPLINARY APPROACH TO ACROMEGALY, Co-Presenter with Margaret Wierman, Clinical Diabetes & Endocrinology, Aspen CO Jan 19, 2009

THE DIAGNOSIS AND TREATMENT OF BRACHIAL PLEXUS LESIONS FROM A NEUROSURGEON'S PERSPECTIVE, Rocky Mountain Hand Surgery Society, String's Restaurant, Denver, CO April 2, 2009

DIAGNOSIS AND TREATMENT OF RATHKE'S CLEFT CYST: A 25 YEAR EXPERIENCE. Neurosurgery in the Rockies, Beaver Creek CO, March 1, 2010

MADAKTARI AFRICA. Global Health Lecture Series, University of Colorado Denver Center for Global Health, Aurora CO May 12, 2010

NON-FUNCTIONING TUMORS/CRANIOPHARYNGIOMAS/RATHKE'S CLEFT CYSTS. Pituitary Patient Education Day, University of Colorado & University of Colorado Hospital. May 22, 2010

SUPRAORBITAL CRANIOTOMY. Anterior Skull Base Resident Dissection Course. University of Colorado Center for Surgical Innovation. July 2010

CLOSING REMARKS at "A new Generation of Immunotherapy: Personalized Medicine to Treat Cancer. University of Colorado Cancer Center & Immunovative Therapies, Ltd. July 21, 2010

MIDDLE FOSSA ANTERIOR PETROSAL AND PRE-SIGMOID POSTERIOR PETROSAL APPROACHES. University of Colorado Department of Neurosurgery, Anterior Skull Base Resident Dissection Course. July 24, 2010

MINIMALLY INVASIVE APPROACHES TO SKULL BASE TUMORS. 7th Annual Symposium, Current Techniques in the Treatment of Cranial and Spinal Disorders, Broomfield CO, Sept 11, 2010

INVASIVE PITUITARY MACROADENOMAS: RADIOGRAPHIC APPEARANCE AND TREATMENT STRATEGIES. Co-presenter with Thomas Borges, M.D. Pituitary Patient Education Day, University of Colorado School of Medicine & University of Colorado Hospital. May 7, 2011

UPPER EXTREMITY PERIPHERAL NERVE ANATOMY WITH DISCUSSION OF BRACHIAL PLEXUS NERVE TRANSFER PROCEDURES. Co-Presenter with Steven Ojemann, MD. University of Colorado School of Medicine Neurosurgery Grand Rounds, September 13, 2011

SURGICAL APPROACH TO PITUITARY TUMORS. Digestive, Endocrine and Metabolic Systems, Foundations of Doctoring Session, University of Colorado School of Medicine. Aurora, CO Dec 1, 2011

NEUROSURGERY BASICS, Pituitary Education Day, University of Colorado Hospital, Aurora, CO May 12, 2012

THE HOUSE THAT KINDT BUILT Kindt Festschrift, University of Colorado Neurosurgery Aurora CO February 23, 2013

BRAIN TUMOR OVERVIEW. Regis University Neuroscience Program, Regis University, Denver CO April 23, 2013

CRANIOPHARYNGIOMA, PITUITARY EDUCATION DAY Pituitary Education Day, University of Colorado Hospital, Aurora, CO May 11, 2013

SURGICAL MANAGEMENT OF PITUITARY TUMOR. University of Colorado Dept of OB/GYN Reproductive Endocrinology Fellows Aurora, CO October 29, 2013

MADAKTARI AFRICA. University of Colorado Center for Global Health. Aurora, CO November 15, 2013

MICROSCOPIC TSS.; OPTIMUM RESECTION AND GLAND PRESERVATION 1st Annual Skull Base Course, University of Colorado Neurosurgery Aurora, CO March 12, 2015

OVERVIEW OF PITUITARY SURGERY AND FOLLOW-UP. 10th Annual Patient Education Day. University of Colorado Aurora, CO. May 7th, 2016

BRAIN TUMOR TREATMENT TRENDS. Partners in Treatment and Care: Patient and Caregiver Meeting – American Brain Tumor Association. Denver, CO May 21, 2016

DIAGNOSIS AND TREATMENT OF PARASELLAR TUMORS. Division of Endocrinology, Metabolism & Diabetes Grand Rounds. University of Colorado School of Medicine, Aurora, CO October 26, 2016

ENDOSCOPIC ENDONASAL APPROACH TO CRANIOPHARYNGIOMA. 3rd Annual Course for Microscopic and Endoscopic Approaches to the Skull Base. University of Colorado Neurosurgery Aurora, CO March 17, 2017

OPEN CRANIAL SURGERY. Medtronic R&D. University of Colorado Hospital, Aurora, CO April 18, 2017

OVERVIEW OF PITUITARY TUMOR SURGERY. 11th Annual Pituitary Patient Education Day, University of Colorado Anschutz Medical Campus, Aurora, CO May 13, 2017

TREATMENT OF PERIPHERAL NERVE TUMORS AND THE BRACHIAL PLEXUS. Resident Education Conference, University of Colorado Hospital, Aurora, CO February 27, 2018

OPENING REMARKS ON THE CURRENT STATUS OF BRAIN TUMOR. American brain tumor association – BT5K, Denver, CO May 5, 2018

MENINGIOMA OVERVIEW (INCIDENCE/GENDER/SITES OF OCCURRENCE) First Annual Meningioma Patient Education Day, Aurora, CO. November 9, 2019

MENINGIOMA TREATMENT: SURGERY First Annual Meningioma Patient Education Day, Aurora, CO. November 9, 2019

Invited Lectures

National

INTRAOPERATIVE ULTRASONOGRAPHIC IDENTIFICATION OF ACUTE INTRACEREBRAL HEMORRHAGE: AN EXPERIMENTAL MODEL IN THE DOG. 14th Annual Edgar A. Kahn Neurosurgical Society Meeting. October 1982, Ann Arbor, Michigan.

ALTERNATIVE METHODS OF TREATMENT FOR MIDLINE SUPRASELLAR ARACHNOID CYST. Michigan Association of Neurological Surgeons, June 1984, Grand Rapids, Michigan.

AUTOLOGOUS STIMULATED LYMPHOCYTES - IMMUNOTHERAPY FOR BRAIN TUMORS. Thirteenth Annual Richard Lende Winter Neurosurgery Conference February 4, 1987, Snowbird, Utah.

THE EXTINCTION OF THE PITUITARY CHROMOPHOBE ADENOMA Fourteenth Annual Richard Lende Winter Neurosurgery Conference Feb. 4, 1988, Snowbird, Utah.

CONTINENTAL FLIGHT 1713: ANALYSIS OF A DISASTER FROM A NEUROSURGICAL PERSPECTIVE. The 20th annual Edgar A. Kahn Society Neurosurgical Meeting, University of Michigan, October 21, 1988, Ann Arbor, Michigan.

A TWO-YEAR FOLLOW-UP ON THE USE OF INTRACAVITARY INTERLEUKIN-2 AND ACTIVATED T-LYMPHOCYTES IN THE TREATMENT OF MALIGNANT ASTROCYTOMAS Fifteenth Annual Richard Lende Winter Neurosurgery Conference February 9, 1989, Snowbird, Utah.

EXPERIENCE WITH PETROSAL SINUS SAMPLING IN THE DIAGNOSIS AND TREATMENT OF CUSHING'S DISEASE. Annual Meeting of the Western Neurosurgical Society, Kawaihae, Hawaii, September 11, 1990.

A NEW CRANIOFACIAL APPROACH TO MIDLINE FRONTAL SKULL BASE LESIONS. Twenty-sixth Annual Meeting of the Rocky Mountain Neurosurgical Society, Inc., Jackson Hole, Wyoming, June 27, 1991.

MANAGEMENT OF CLOSED BRACHIAL PLEXUS INJURIES. Congress of Neurological Surgeons, 41st Annual Meeting. Orlando, Florida, October 29, 1991.

SURGICAL ANATOMY OF THE MUSCULOCUTANEOUS AND RADIAL NERVES. Congress of Neurological Surgeons. 42nd Annual Meeting. Washington D.C., November, 1, 1992.

LOCAL SUSTAINED RELEASE OF CISPLATIN FROM BIODEGRADABLE POLYMER CAN CURE 9L GLIOSARCOMA IN THE RAT. Annual Meeting of the Rocky Mountain Neurosurgical Society, Bigfork, Montana, June 15, 1993.

HOW EFFECTIVE ARE LOWER EXTREMITY NERVE REPAIRS AND CAN RECONSTRUCTIVE PROCEDURES COMPLIMENT NEURAL REPAIR? Postgraduate Course: Surgery of the Peripheral Nerves System. Annual Clinical Congress of the American College of Surgeons. San Francisco, California, October 12, 1993.

MANAGEMENT OF PERIPHERAL NERVE LESIONS AND ENTRAPMENT SYNDROMES. Breakfast Seminar. American Association of Neurological Surgeons. San Diego, California, April 11, 1994.

RADIATION THERAPY AS AN ADJUNCT TO THE TREATMENT OF THE PITUITARY MACROADENOMA. IS IT ALWAYS NECESSARY? The American Academy of Neurological Surgery - 55th Annual Meeting. Litchfield Park, Arizona, October 30, 1993.

RADIATION THERAPY AS AN ADJUNCT TO THE TREATMENT OF THE PITUITARY MACROADENOMA. IS IT ALWAYS NECESSARY? Rocky Mountain Neurosurgical Society, Inc., Twenty-Ninth Annual Meeting. Snowmass, Colorado, June 14, 1994.

COMPLICATIONS OF THORACIC OUTLET SURGERY. Luncheon Seminar. Congress of Neurologic Surgeons- San Francisco, California. October 27, 1995.

IMAGE GUIDED CRANIAL SURGERY: AN APPLICATION OF VIRTUAL REALITY. The 13th Conference on Computer Applications in Radiology- Am Coll of Radiology/Soc for Computer Applications in Radiology. Denver, Colorado. June 9, 1996.

IDIOPATHIC SPINAL CORD HERNIATION: A TREATABLE CAUSE OF THE BROWN-SEQUARD SYNDROME WITH A DISTINCTIVE RADIOGRAPHIC PRESENTATION. Rocky Mountain Neurosurgical Society, Inc., Thirty-First Annual Meeting, Telluride, Colorado, June 17, 1996.

TIBIAL AND PERONEAL NERVE INJURIES. The Section on Disorders of the Spine and Peripheral Nerves- AANS/CNS- 13th Annual Meeting, Newport Beach, California, February 20, 1997.

COMPLICATIONS OF THORACIC OUTLET SURGERY. American Association of Neurological Surgeons - 65th Annual Meeting, Denver, Colorado, April 25, 1997.

CLINICAL CASE REVIEWS OF PRIMARY BRAIN TUMORS, PITUITARY TUMORS AND PERIPHERAL NERVE INJURIES. Neurosurgery Mock Oral Review, Osler Institute, Houston, TX November 8-11, 1997

CURRENT MANAGEMENT OF BRAIN TUMORS AT COLORADO UNIVERSITY. The Society of Neurological Surgeons: 90th Annual Meeting. Colorado Springs, Colorado, May 16, 1999..

PERI-OPERATIVE COMPLICATIONS OF BIOPSY AND CRANIOTOMY IN TREATMENT OF MALIGNANT GLIOMA:
DATA FROM THE GLIOMA OUTCOME PROJECT (Oral Abstract). 49th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts, November 3, 1999.

LOWER EXTREMITY NERVE INJURIES AND ENTRAPMENTS. Resident Practical Clinic #016, The Annual Meeting of the Association of Neurological Surgeons, San Francisco, CA, April 8, 2000.

PERI-OPERATIVE COMPLICATIONS OF BIOPSY AND CRANIOTOMY IN TREATMENT OF MALIGNANT GLIOMAS: AN ANALYSIS OF DATA FROM THE GLIOMA OUTCOME PROJECT, Rocky Mountain Neurosurgical Society, 35th Annual Meeting, Alyeska, Alaska. June 26, 2000.

IMMUNOTHERAPY AS AN ADJUNCT TO SURGERY IN THE TREATMENT OF BRAIN TUMORS. "State of the Art" lecture, 2001 Annual Meetings of the Western Societies (WAP, WSCI, WAFMR), Carmel, California. February 10, 2001.

CONTROVERSIES IN THE TREATMENT OF LOW-GRADE GLIOMAS. Second Annual Upper Midwest Brain Tumor Symposium (Sponsored by the University of Minnesota Dept of Neurosurgery), Bloomington, Minnesota. March 23, 2001.

CONTROVERSIES IN THE TREATMENT OF LOW-GRADE GLIOMAS. Rocky Mountain Neurosurgical Society, 36th Annual Meeting, Steamboat Springs, Colorado. June 18, 2001.

BRAIN TUMOR IMMUNOTHERAPY: FACT OR FICTION. Rocky Mountain Neurosurgical Society, 36th Annual Meeting, Steamboat Springs, Colorado. June 18, 2001.

MANAGING FOOT DROP IN THE PATIENT WITH PERONEAL AND SCIATIC NERVE DISORDERS: TENDON TRANSFER IS SUPERIOR. 18th Annual Meeting: Section on Disorders of the Spine and Peripheral Nerves: AANS/CNS. Orlando, Florida, February 28, 2002.

SURFACE ANATOMY FOR COMMON NERVE OPERATIONS. 18TH Annual Meeting: Section on Disorders of the Spine and Peripheral Nerves: AANS/CNS. Orlando, Florida, March 2, 2002.

LOWER EXTREMITY NERVE INJURIES AND ENTRAPMENTS. Practical Clinic #003. American Association of Neurological Surgeons-Annual Meeting, Chicago, Illinois. April 6, 2002.

TREATMENT UPDATES – SURGERY. The 7th National Brain Tumor Conference – The National Brain Tumor Foundation. Denver, CO/Phoenix AZ/San Francisco Bay Area, CA – September 21, 2002.

GLIOMAS: CLINICAL ADVANCES – IMMUNOTHERAPY. Neuro-Oncology 2003: Current Concepts. The Cleveland Clinic Brain Tumor Institute and the Department of Neurosurgery. Orlando, FL., January 12, 2003.

OVERCOMING THE BLOOD-BRAIN BARRIER USING CONVECTION ENHANCED DELIVERY: METHODS, OUTCOMES, AND IMPLICATIONS FOR PATIENT CARE. Oncology Nursing Society Annual Meeting – Neuro-oncology Special Interest Group. Denver, CO May 1, 2003.

CHALLENGES IN TREATING PATIENTS WITH LUNG CANCER AND BRAIN METASTASIS. American Society of Clinical Oncology (ASCO) Annual Meeting. Chicago, IL. June 1, 2003 and June 3, 2003 (Lecture given twice)

THE “DENVER CORRIDOR”, A MINIMALLY INVASIVE DEVICE FOR ACCESS TO DEEP-SEATED INTRACRANIAL TUMORS. The 38th Annual Meeting of the Rocky Mountain Neurosurgical Society, Big Sky, Montana. June 22, 2003.

CHALLENGES IN MANAGEMENT OF LUNG CANCER PATIENTS WITH BRAIN METASTASIS. Second Annual Atlanta Lung Cancer Symposium. Atlanta, Georgia. March 27, 2004.

NOVEL TREATMENT FOR BRAIN TUMORS: THE GOOD, THE BAD, AND THE UGLY. The 39th Annual Meeting of the Rocky Mountain Neurosurgical Society, Squaw Valley, California. June 16, 2004.

MANAGEMENT OF LUNG CANCER PATIENTS WITH BRAIN METASTASIS. 2004 Symposium on Diagnosis and Treatment Strategies in Lung Cancer. Omaha, Nebraska. October 1, 2004.

RATIONALE AND TECHNIQUES FOR USE OF DURAGEN, NEURAGEN, AND ENDURA IN NEUROSURGICAL CASES. Integra National Meeting. Fort Lauderdale, FL, Feb. 10, 2005

BUILDING THE COMPREHENSIVE NEUROSCIENCE PROGRAM AT UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER. ACI'S 5th National Conference on Developing and Operating Neuroscience Centers of Excellence For Hospitals and health Systems. Orlando, FL February 24-25, 2005

RADIATION-INDUCED MENINGIOMAS. 40th Annual Rocky Mountain Neurosurgical Society Meeting. Whistler, BC, June 2005.

CURRENT STATUS OF BRAIN TUMOR IMMUNOTHERAPY. Aspen Symposium in Brain Tumor Immunotherapy, Aspen, CO. Aug. 7, 2005.

MANAGEMENT OF LOW GRADE GLIOMAS. University of Texan Southwestern Medical School. Visiting Professorship. Department of Neursurgery. Dallas, Tx, March 26, 2006.

IMMUNOTHERAPY IN THE TREATMENT OF BRAIN TUMORS. University of Texan Southwestern Medical School. Visiting Professorship. Department of Neursurgery. Dallas, Tx, March 26, 2006.

M. STEPHEN MAHALEY, Jr., M.D., Ph. D. THE FATHER OF BRIAN TUMOR IMMUNOTHERAPY. Aspen Symposium in Brain Tumor Immunotherapy, Aspen, CO. August 7, 2006.

LOCAL TGF-Beta 2 INHIBITION vs. AN ADJUNCT TO SYSTEMIC TUMOR VACICINE THERAPY IN THE TREATMENT OF MALIGNANT GLIOMA: PROOF OF PRINCIPLE. Society for Neuro-Oncology Annual Meeting, Orlando, FL Nov. 16, 2006

SURGICAL APPROACHES TO THE MIDDLE CRANIAL FOSSA, Florida Skull Base Course, University of Florida, Gainesville, Florida February 23, 2008

CONTROVERSIES IN THE TREATMENT OF LOW-GRADE GLIOMAS, Honored Guest speaker at Texas Association of Neurological Surgeons 2010 Annual Meeting, March 5, 2010

DIAGNOSIS AND TREATMENT OF PITUITARY RATHKE'S CLEFT CYSTS, Honored Guest speaker at Texas Association of Neurological Surgeons 2010 Annual Meeting, March 6, 2010

MADAKTARI AFRICA: NEUROSURGERY IN EAST AFRICA. Rocky Mountain Neurosurgical Society, Telluride CO June 30, 2010

MINIMALLY INVASIVE APPROACHES TO SKULL BASE TUMORS. 7th Annual Symposium, Current Techniques in the Treatment of Cranial and Spinal Disorders, Broomfield CO, Sept 11, 2010

PINEAL CYSTS. Practical Clinic: Management of Incidental Imaging Findings, American Association of Neurological Surgeons Annual Meeting. Denver, CO April 10, 2011

PITUITARY TUMORS. American Association of Neurological Surgeons. Denver, CO April 12, 2011

DIAGNOSIS AND TREATMENT OF LOW GRADE GLIOMA. Visiting Professor at Louisiana State University Medical School, Shreveport, LA May 4, 2011

MADAKTARI AFRICA. NEUROSURGICAL EXPERIENCE IN TANZANIA. Journal Club. Visiting Professor at Louisiana State University Medical School, Shreveport, LA May 4, 2011

ENDOSCOPIC TREATMENT OF CLIVAL CHORDOMAS. Neurosurgery in the Rockies, Beaver Creek Colorado, February 18, 2012

PINEAL CYSTS. Practical Clinic: Management of Incidental Imaging Findings, American Association of Neurological Surgeons Annual Meeting. Miami, FL April 15, 2012

RATHKE'S CLEFT CYSTS AND OTHER SELLAR LESIONS OTHER THAN PITUITARY ADENOMAS – DIAGNOSIS AND MANAGEMENT. American Association of Neurological Surgeons, Miami FL April 18, 2012

SPHENO-ORBITAL MENINGIOMAS, Rocky Mountain Neurosurgical Society Maui, Hawaii June 17, 2012

AMERICAN BRAIN TUMOR ASSOCIATION WEBINAR: “TREATMENT OF ADULT CRANIOPHARYNGIOMAS: AN UPDATE ON CURRENT TRENDS IN SURGICAL, MEDICAL AND RADIATION THERAPY” May 6, 2014

APPROACHES TO CRANIOPHARYNGIOMAS, Management of Brain Tumors Course, Barrow Neurologic Institute. Phoenix AZ October 11, 2013

ENDOSCOPIC TREATMENT OF CLIVAL CHORDOMAS, Management of Brain Tumors Course, Barrow Neurologic Institute. Phoenix AZ October 11, 2013

ACROMEGALY: A NEW PARADIGM IN OUR UNDERSTANDING OF THE DISEASE Rocky Mountain Neurosurgical Society, June 2014

CRANIOPHARYNGIOMA: A CHANGING PARADIGM IN THERAPY Julian T. Hoff Visiting Professor, Ann Arbor, MI March 26, 2015

MADAKTARI AFRICA, TANZANIA Julian T. Hoff Visiting Professor, Ann Arbor, MI March 26, 2015

BRAIN TUMOR TREATMENT TRENDS. American Brain Tumor Association's Partners in Treatment and Care Patient and Caregiver Meeting. Denver, CO May 2, 2015

INTRODUCTION TO THE OPERATING ROOM AND LEADERSHIP. SNS Junior Resident Course. Center for the Future of Surgery, San Diego, CA May 14-16, 2015

SEARCH FOR DRUGGABLE TARGETS IN PRIMARY NERVOUS SYSTEM MELANOTIC TUMORS: MELANOCYTOMAS, MELANOTIC SCHWANNOMAS, PRIMARY MELANOMAS 2016 Society for Neuro-Oncology 21st Annual Scientific Meeting Scottsdale, Arizona

DIAGNOSIS AND TREATMENT OF PITUITARY TUMORS. 2018 Frontiers in Primary Care Conference Casper, WY April 20, 2018

ENDOSCOPIC ENDONASAL SURGERY FOR CRANIOPHARYNGIOMAS. 4th Annual Microscopic and Endoscopic Approaches to the Skull Base. Aurora, CO March 15, 2018

BREAKFAST SEMINAR: TANZANIA: OUR JOURNEY FROM MADAKTARI TO MOI. AANS Annual Meeting, New Orleans, LA April 30, 2018

RETROSPECTIVE ON ELIZABETH C. CROSBY. U-M NEUROSURGERY: PAST, PRESENT, AND FUTURE CONFERENCE. Ann Arbor, MI September 14, 2018

REASSESSING OUR TREATMENT OF CRANIOPHARYNGIOMA IN THE ERA OF ENDOSCOPIC SKULL BASE SURGERY. Johns Hopkins Neurosurgery Grand Rounds. December 6, 2018

CRANIOPHARYNGIOMA AND RATHKE: NEW MOLECULAR PATHOPHYSIOLOGY AND SURGICAL APPROACHES. Endo 2019 New Orleans, LA March 24, 2019

BREAKFAST SEMINAR: GLOBAL NEUROSURGERY – TANZANIA. AANS Annual Meeting, San Diego, CA April 13, 2019

Invited Lectures

International

LOCAL SUSTAINED RELEASE OF CISPLATIN FROM BIODEGRADABLE POLYMER FOR THE TREATMENT OF INTRACRANIAL GLIOMA IN THE RAT. The Tenth International Conference on Brain Tumor Research and Therapy. Stalheim, Norway, September 8, 1993.

REASSESSMENT OF THE ROLE OF RADIATION THERAPY IN THE TREATMENT OF ENDOCRINE INACTIVE PITUITARY MACROADENOMAS. Joint Section on Tumors AANS/CNS, Montreal, Canada. October 4, 1996.

CURRENT STATUS OF POLYMER INPLANTS FOR TREATMENT OF BRAIN TUMORS - GLI 328 International Advisory Board Meeting. Zurich, Switzerland. December 13, 1997.

IMMUNOTHERAPY FOR BRAIN TUMOR. The 358th Shinshu Neurosurgical Seminar. Shinshu University School of Medicine, Matsumoto, Japan. October 7, 1999.

PRINCIPLES AND TECHNIQUES OF PERIPHERAL NERVE SURGERY. Resident Review Course, American Association of Neurological Surgeons Annual Meeting. Toronto, Canada. April 21, 2001.

EVALUATION AND MANAGEMENT OF PERIPHERAL NERVE ENTRAPMENT SYNDROMES. Breakfast Seminar, American Association of Neurological Surgeons Annual Meeting, Toronto, Canada. April 24, 2001

THE CURRENT MANAGEMENT OF ACUTE SPINAL CORD INJURY IN THE 21ST CENTURY, 21st Chinese SCI Academic Annual Meeting & The 3rd International SCI Treatments & Trials Symposium, Beijing, China October 30, 2008

DIAGNOSIS AND TREATMENT OF TUMORS OF THE BRAIN: AN OVERVIEW. Haydom Lutheran Medical Center, Haydom, Tanzania, February 13, 2013

TREATMENT OF PARASELLAR LESIONS: PITUITARY ADENOMA AND CRANIOPHARYNGIOMA. Muhimbili Medical Center, Dar Es Salam Tanzania. May 3, 2016

PITUITARY TUMORS (SURGICAL MANAGEMENT). Neuro-Oncology Symposium. MOI, Dar Es Salaam, Tanzania. July 30, 2019

PITUITARY TUMORS (ENDOCRINOLOGY) Neuro-Oncology Symposium MOI, Dar Es Salaam, Tanzania. July 30, 2019

CRANIOPHARYNGIOMA Neuro-Oncology Symposium MOI, Dar Es Salaam, Tanzania. July 30, 2019

ENDOSCOPIC ANATOMY OF THE CENTRAL SKULL BASE Neuro-Oncology Symposium MOI, Dar Es Salaam, Tanzania. July 31, 2019

ENDONASAL TRANSSPHENOIDAL SURGERY Neuro-Oncology Symposium MOI, Dar Es Salaam, Tanzania. July 31, 2019

ENDOSCOPIC ENDONASAL SURGERY FOR CRANIOPHARYNGIOMA Neuro-Oncology Symposium MOI, Dar Es Salaam, Tanzania. July 31, 2019

RESEARCH ACTIVITIES

Research Grants, Contracts and Agreements

Ongoing Research Support:

Private Donations

Plachy-Rubin "Race for Research" Fund

Supports brain tumor research at the University of Colorado Cancer Center. Approx \$20,000 annually to the Department of Neurosurgery Neuro-oncology Program

Sapiro Family Brain Tumor Donation

One time donation of \$50,000 in 2006 to support the Department of Neurosurgery Brain tumor Immunotherapy Research.

Grills Family Foundation

One time donation of \$10,000 in 2007 to the Department of Neurosurgery Neuro-oncology Research Fund.

Industry Supported

Arbor Pharmaceuticals, LLC, Kevin O. Lillehei (PI) 2015-present

Vigilant ObservatiOn of GliadeL Wafer ImplaNt (VIGILANT) Registry: A Multicenter, Observational Registry to Collect Information on the Safety and Effectiveness of Gliadel® Wafer (Carmustine Implant) Used in Usual Medical Practice

Role: PI

Northwest Biotherapeutics, Inc, Kevin O. Lillehei (PI) 2014-2014
An Expanded Access Protocol for the Treatment of Glioblastoma Multiforme in Patients with Already Manufactured DCVax®-L, Autologous Dendritic Cells Pulsed with Tumor Lysate Antigen Who Have Screen-Failed
Role: PI

Northwest Biotherapeutics, Inc, Kevin O. Lillehei (PI) 2011-2014
A Phase II Clinical Trial Evaluating DCVax®-Brain, Autologous Dendritic Cells Pulsed with Tumor Lysate Antigen for the Treatment of Glioblastoma Multiforme
Role: PI

Xenova, Inc (KS Biomedix Ltd.), Lillehei (PI) 2005-2008
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.
Role: PI

Biogen, Inc., Kevin O. Lillehei (PI) 06/01/02-5/31/05
A Multi-Center, open label, two part, dose escalation Phase I study to determine the tolerability of Interferon-beta gene transfer (BG00001) in the treatment of recurrent or progressive Glioblastoma Multiforme.
This is Phase I clinical trial to determine the tolerability of stereo injected interferon-beta gene via an adenovirus vector into patients with recurrent or progressive Glioblastoma Multiforme.
Role: PI

NeoPharm Pharmaceuticals, Lillehei (PI) 07/01/02-06/31/05
Pre-operative IL13-PE38QQR infusion in patients with recurrent or progressive supratentorial malignant glioma: a Phase I/II study.
Phase I/II clinical trial examining the tolerability of pseudomonas endotoxin linked to IL-13, which is targeted to the IL-13 receptor on recurrent high-grade gliomas. The drug is infused using convection-enhanced delivery over 4-7 days prior to surgical resection.
Role: PI

NeoPharm Pharmaceuticals, Lillehei (PI) 07/01/04-06/31/06
Phase III randomized evaluation of convection enhanced delivery of IL13-PE38QQR compared to Gliadel wafer with survival endpoint in glioblastoma multiforme patients at first recurrence. (Protocol # IL13PEI-301).
Phase III clinical trial examining the benefit to survival of patients treated with pseudomonas endotoxin linked to IL-13 (which is targeted to the IL-13 receptor on glioblastoma multiforme) over treatment with Gliadel wafers alone. The drug is infused post-operatively using convection-enhanced delivery over 4 days.
Role: PI

Northwest Biotherapeutics, Lillehei (PI) 2014-present
A phase II/III Clinical Trial Evaluating DCVax® - Brain, Autologous Dendritic Cells Pulsed with Tumor Lysate Antigen for the Treatment of Glioblastoma Multiforme.

Gliadel – Mapi USA, Lillehei (PI) 1/26/2016 – 1/25/2020
Multi-center Data Base on the use of Gliadel wafers in the treatment of patients with high-grade intracranial malignancies

Neuraptive, Lillehei (PI) 05/01/2019 – 11/30/2019

Completed Research Support

ABC2 Foundation Alex Franzusoff (PI) 6/02-5/03
Development of novel brain tumor vaccines
The goals of this project are to test a novel yeast-based cancer vaccine for use against brain cancer.
Role: Co-Investigator

American Cancer Society/University of Colorado Cancer Center Seed Grant, Alex Franzusoff (PI) 6/02-5/03
Univ. Colorado Cancer Center
Development of novel lung tumor vaccines
The goals of this project are to test a novel yeast-based cancer vaccine for use against lung cancer.
Role: Co-Investigator

Source: ABC2 Foundation Alex Franzusoff (PI) 6/00-5/01
Project Title: Development of novel brain tumor vaccines
The goals of this project are to test a novel yeast-based cancer vaccine for use against brain cancer.
Role: Co-Investigator

Source: American Cancer Society/University of Colorado Cancer Center Seed Grant, Alex Franzusoff (PI) 6/00-5/01. Univ. Colorado Cancer Center
Project Title: Development of novel lung tumor vaccines
The goals of this project are to test a novel yeast-based cancer vaccine for use against lung cancer.

Source: NIH RO-1 CA079788-03
Project Title: Brain therapy using ultrasound-mediated drug delivery.
P.I: Lawrence K. Ng, Ph.D.
Co-P.I.'s: **Kevin O. Lillehei, M.D.**, Leonard Bond, Ph.D.
Direct Costs: \$679,125
Period of Support: 12/01/98-11/31/01

Source: Bob and Pris Partridge (Private Donation)
Project Title: Immunotherapy Brain Tumor Research
P.I.: **Kevin O. Lillehei, M.D.**
Direct Costs: \$50,000
Period of Support: One time donation

Source: Academic Enrichment Fund-University of Colorado Health Sciences Center
Project Title: Vaccination with irradiated tumor cells plus cytokine in the treatment of malignant glioma in the rat model.
P.I.: **Kevin O. Lillehei, M.D.**
Direct Costs: \$17,000
Period of Support: 7/01/98-6/30/01

Source: Genetic Therapy Inc., Gaithersburg, Maryland
Project Title: Prospective, open-label, parallel-group, randomized, multicenter trial Comparing the efficacy of surgery, radiation and injection of murine cells Producing herpes simplex thymidine kinase vector followed by intravenous gancyclovir against the efficacy of surgery and radiation in the treatment of newly diagnosed, previously untreated glioblastoma.
P.I.: **Kevin O. Lillehei, MD**
Direct Costs: \$98,060
Entire Period of Support: 8/1/96-7/31/00

Source: NIH/NCI P30-CA46934
Project Title: Cancer Center Core Grant
Principal Investigator: Paul A. Bunn, Jr., MD
Role: Co-director-Adult Clinical Oncology Program: **Kevin O. Lillehei**
Total Annual Direct Costs of Project: \$8,395.395
Direct Costs to Investigator: \$53,750
Entire Period of Support: 3/01/95-2/28/00

Source: Milheim Foundation for Cancer Research
Project Title: Active Specific Immunotherapy Using a Tumor Vaccine Strategy Combined With Local and/or Systemic Inhibition of TGF-beta for Treatment of Intracranial Glioma.
P.I. **Kevin O. Lillehei, MD**
Direct Costs: \$13,000
Period of Support: 7/1/98-6/30/99

Source: American Cancer Society/University of Colorado Cancer Center Fellowship Grant
Project Titles: Active Specific Immunotherapy Using a Tumor Vaccine Strategy Combined with Local and/or Systemic Inhibition of TGF-beta for Treatment of Intracranial Gliomas.

Faculty Sponsor: **Kevin O. Lillehei, MD**
Direct Costs: Fellowship Grant Dr. Yang Liu--\$10,000
Period of Support: 7/1/97-6/30/98

Source: National Cancer Institute
Project Title: Cancer Center Core Grant-#5P30CA46934-05
Principal Investigator: Paul A. Bunn, Jr.
Surgical Oncology Program Leader: **Kevin O. Lillehei** (10% effort)
Direct Costs: \$50,000
Entire Period of Support: 3/1/91-2/28/95
Clinical Investigations Core Co-Director: Kevin O. Lillehei (5% effort)
Direct Costs: \$18,750
Entire Period of Support: 3/1/92-2/28/95

Source: NOVA Pharmaceutical Corporation, Baltimore, Maryland
Project Title: The Safety and Tolerability of the Use of Gliadel for the Treatment of Recurrent Malignant Glioma (Protocol NPC #9115)
Principal Investigator: **Kevin O. Lillehei**
Direct Costs: No funding offered-Compassionate use awaiting FDA approval.

Source: NIH ROI Supplement
Project Title: Immunotherapy for Primary Brain Glioma
Principal Investigator: Carol A. Kruse
Co-Investigators: **Kevin O. Lillehei**, Donald Bellgrau
Direct Costs: \$35,145
Entire Period of Support: 8/1/91-7/31/95

Source: NIH ROI
Project Title: Immunotherapy for Primary Brain Glioma
Principal Investigator: Carol A. Kruse
Co-Investigators: **Kevin O. Lillehei**, Donald Bellgrau
Direct Costs: \$709,815
Entire Period of Support: 8/1/90-7/31/95
Director of Clinical Studies: Kevin O. Lillehei (10% effort)

Direct Costs: \$20,006
Entire Period of Support: 8/1/93-7/31/95

Source: University of Colorado Academic Enrichment Fund
Project Title: Synthesis and Characterization of a Paramagnetic Protein Conjugate (Gadolinium-DTPA Corticotropin Releasing Factor), with an Affinity for the Pituitary Corticotroph Cell Receptor, for use in in-vivo magnetic Resonance imaging of Pituitary ACTH secreting cells.

Principal Investigator: **Kevin O. Lillehei**
Direct Costs: \$6,544
Entire Period of Support: 7/1/92-6/30/93

Source: NOVA Pharmaceutical Corporation, Baltimore, Maryland
Project Title: A double-blind, placebo-controlled study of BCNU delivered from Bidel, a biodegradable, surgically Implanted polymer for treatment of recurrent, malignant glioma (Protocol NPC #8802)

Principal Investigator: **Kevin O. Lillehei**
Direct Costs: \$17,600
Entire Period of Support: 12/1/89-4/1/91

Source: Cell Technology, Inc., Boulder, Colorado
Project Title: Phase II Study of ImuVert in Patients with Recurrent or Refractory Anaplastic Astrocytoma or Glioblastoma Multiforme.

Principal Investigator: **Kevin O. Lillehei**
Direct Costs: \$50,893
Entire Period of Support: 11/3/88-7/17/90

Source: William V. Gervasini Brain Tumor Foundation
Project Title: Interleukin-2 Investigation Involving Malignant Glioma
Investigators: Denver Brain Tumor Research Group (**K.O. Lillehei**, Head of Clinical Investigation, C.A. Kruse, Head of Basic Research Studies)
Direct Costs: \$44,527
Entire Period of Support: 1988-1991

Source: Cancer League of Colorado
Project Title: Immunotherapy for Brain Tumors-Clinical Trial
Investigators: Denver Brain Tumor Research Group (**K.O. Lillehei**, Head of Clinical Investigation, C.A. Kruse, Head of Basic Research Studies)
Direct Costs: \$15,000
Entire Period of Support: 9/1/87-9/1/88

Source: The Colorado Trust
Project Title: Autologous Stimulated Lymphocytes-Immunotherapy for Brain Tumors
Investigators: Denver Brain Tumor Research Group (**K.O. Lillehei**, Head of Clinical Investigation, C.A. Kruse, Head of Basic Research Studies)
Direct Costs: \$60,000
Entire Period of Support: 1/1/87-1/1/89

Source: Biomedical Research Support-University of Colorado Health Sciences Center
Project Title: Autologous Stimulated Lymphocytes-Immunotherapy for Brain Tumors
Principal Investigator: **Kevin O. Lillehei**
Direct Costs: \$10,400
Entire Period of Support: 10/8/86-4/30/87

Source: Hoffmann-LaRoche Pharmaceutical, Nutley, New Jersey
Project Title: Interleukin-2 Clinical Investigation Involving Malignant Glioma
Investigators: Denver Brain Tumor Research Group (**K.O. Lillehei**, Head of Clinical Investigation, C.A. Kruse, Head of Basic Research Studies)
Direct Costs: \$30,000
Entire Period of Support: 10/1/86-7/1/88

Source: American Critical Care Corporation, Chicago, Illinois
Project Title: Role of Colloid Volume Expansion in the Treatment Of Cold Induced Vasogenic Edema
Principal Investigator: Bruce Tranmer
Co-Investigators: **Kevin O. Lillehei**, Glenn Kindt, Cordell Gross
Direct Costs: \$13,000
Entire Period of Support: 1/1/86-12/31/86

COMMUNITY SERVICE

Sky High Hope Camp

1 week summer camp for children with cancer sponsored by Ronald McDonald Charities.
Camp Counselor & Physician
2001-Present

Madaktari Africa

Volunteer work to help develop neurosurgical expertise in underserved regions of Tanzania, including Arusha, Haydom, Dar es Salaam and Mwanza.
2008 – present

National Football League (NFL): Unaffiliated Neuro-Trauma Consultant

2013-present