

## Curriculum Vitae

**MICHAEL HILLEL HANDLER M.D., F.A.C.S., F.A.A.P.**

**McMurry Seebaum Chair in Pediatric Neurosurgery**  
**Chief of Pediatric Neurosurgery, The Children's Hospital and the University of Colorado Denver Health Sciences Center**  
**Associate Professor, Department of Neurosurgery**

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### **Academic Appointments:**

Acting Chairman, Department of Neurosurgery, University of Colorado Health Sciences Center, Dec. 2002-Feb 2003  
Assistant Professor, Department of Neurosurgery, University of Colorado Health Sciences Center, 2000-01  
Assistant Clinical Professor, Department of Surgery/ Division of Neurosurgery, University of Colorado Health Sciences Center, 1996-2000  
Clinical Assistant, Department of Surgery/Division of Neurosurgery, University of Medicine and Dentistry, New Brunswick, NJ, 1990-1993  
Clinical Assistant Professor, Department of Neurosurgery, New York University School of Medicine, 1988-1994

### **Attending Neurosurgeon:**

The Children's Hospital, Aurora, CO  
University Hospital, Denver  
Exempla/St. Joseph Hospital, Denver  
Denver Health Medical Center, Denver

### **Postgraduate Professional Training:**

Fellow, Pediatric Neurosurgery, New York University	8/93 - 6/94
Neurosurgical Resident, New York University	7/81 - 12/86
Neurology Resident, SUNY Downstate Medical Center	7/80 - 6/81
General Surgery Intern, New York University	7/79 - 6/80

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### **Education:**

M.D., University of Pittsburgh School of Medicine	1979
B.A., Columbia University, New York, NY	1974
Amity Regional High School, Woodbridge, CT	1968

### **State Licensure:**

Colorado #33159 October 14, 1993  
New Jersey #49083 November 5, 1986 (Inactive)  
New York #160739 November 5, 1984 (Inactive)

**Board Certification:**

Diplomate, American Board of Pediatric Neurological Surgery 1998, Recertified 2009  
Diplomate, American Board of Neurological Surgery 1989  
Primary Exam, American Board of Neurological Surgery 1983  
Diplomate, National Board of Medical Examiners 1980

**Fellowships:**

Fellow, American Academy of Pediatrics 1997  
Fellow, American College of Surgeons 1996

**Clinical Practice Information:**

Private Practice, 1994-2000  
Rocky Mountain Pediatric Neurosurgery P.C.  
Suite 605 Tammen Hall at The Children's Hospital  
1010 East 19th Ave.  
Denver, Colorado 80218

Private Practice, 1987 to 1993  
Partner, Neurosurgical Associates of Central New Jersey  
1303 Route 27  
Somerset, N.J. 08873  
Attending Neurosurgeon at:  
Robert Wood Johnson University Hospital, New Brunswick, NJ  
St. Peter's Medical Center, New Brunswick, NJ  
The Medical Center at Princeton, Princeton, NJ  
Somerset Medical Center, Somerville, NJ

**Professional Organizations:**

American Association of Neurological Surgeons  
Congress of Neurological Surgeons  
American Society of Pediatric Neurosurgeons  
Joint Pediatric Section of the AANS and CNS  
At-Large Member, Board of Directors 2008-  
American Epilepsy Society  
American Academy of Neurology  
American Medical Association  
Colorado Neurosurgical Society  
Secretary, 2004-06  
Vice President 2006-08  
President, 2008-2010  
Rocky Mountain Neurosurgical Society  
Colorado Medical Society  
North American Skull Base Society

**Intramural Hospital Committees:**

Operations Committee, "Virtual Surgery Department," The Children's Hospital, 2007-present  
Search Committee, Chair of Pediatric Hematology/Oncology, 2006-2007  
Search Committee, Chair of Pediatric Neurology, 2006-2007  
Chair, Search Committee, Pediatric Neuro-oncologist 2007  
Immediate Past-President of the Medical Board, The Children's Hospital, Denver, 2004-  
President of the Medical Board, The Children's Hospital, Denver, 2002-2004  
President-Elect of the Medical Board, The Children's Hospital, Denver, 2000-2002  
Board of Directors, The Children's Hospital, Denver, 2002-2004  
Board of Directors, Children's Hospital Foundation Research Institute, Denver, 2002-present  
Medical Board, The Children's Hospital, Denver, 1995-2006  
Executive Committee of the Medical Board, The Children's Hospital, Denver, 1996-2006  
Professional Affairs Committee of the Board of Directors, The Children's Hospital, Denver, 2000-2004  
Credentials Committee of the Medical Board, The Children's Hospital, Denver, 2000-2004  
Professional Review Team, The Children's Hospital, Denver, 1995-2000, 2004-present  
Search Committee for Chair of Anesthesiology, The Children's Hospital, Denver, 2001  
Medical Records Committee, Robert Wood Johnson University Hospital, New Brunswick, NJ, 1990-1993  
Intensive Care Committee, St. Peter's Medical Center, New Brunswick, NJ, 1989-1993  
Intensive Care Committee, The Medical Center at Princeton, Princeton, NJ, 1988-1993

**Extramural Committees:**

High Grade Glioma Committee, Children's Oncology Group, 2000-present  
Ependymoma Committee, Children's Oncology Group, 2001-present  
COG-ADVL0011 Study Committee, Children's Oncology Group, 2000-present  
COG-ACNS0121 Study Committee, Children's Oncology Group, 2003-present  
COG-ACNS0334 Study Committee, Children's Oncology Group, 2004-present  
COG-ANBL0531 Study Committee, Children's Oncology Group, 2005  
Judicial Medical Ethics Committee, Middlesex County Medical Society, Middlesex County, NJ, 1990-1993

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### **National Committees:**

Member-at-Large, Executive Committee of the AANS /CNS Joint Section on Pediatric Neurological Surgery, 2008-present  
Meeting Chairman, 35<sup>th</sup> Annual Meeting of the AANS/CNS Joint Section on Pediatric Neurological Surgery, November 28-December 1, 2006, Denver CO  
Council of State Neurosurgical Societies, 2002-2008  
Neurosurgical Coordinator, American Academy of Pediatrics District VIII, 2001-present

### **University/Medical School Activities:**

Member, Contracting Committee, University Physicians, Inc., Denver, 2007-present  
Dean's Task Force on Professionalism, UCHSC, Denver, 2003-2004  
Director, Neurosurgery Residency, UCHSC, Denver, Dec. 2002-Feb. 2003  
Deputy Director, Neurosurgery Residency, UCHSC, Denver, May-Nov. 2002  
Medical Student Clerkship Director, Department of Neurosurgery, UCHSC, Denver, 2001-present  
Revenue Flow and Incentives Committee, University Physicians Inc., Denver, 2001  
Board of Directors, Pediatric Physicians and Surgeons Network of *KidSmart*, The Children's Hospital, Denver, 1996-2000

### **Honors and Awards:**

Best Doctor, 5280 Magazine survey, 2008  
Outstanding Instructor, UCHSC School of Medicine Class of 2003  
Resolution of Board of Directors of The Children's Hospital, Denver, February 12<sup>th</sup>, 2004, in Recognition of Service to the Institution.  
Honorary Membership, Alpha Omega Alpha Medical Honor Society, May 25, 2004

### **Research Protocol:**

Co-Principal Investigator, COMIRB 00-731, "Protocol to evaluate use of intravenous fluids and electrolyte levels after craniotomy for brain tumors"

### **Editorial Position:**

Reviewer, *Pediatric Neurosurgery*, 1999-present

### **Publications:**

Katz JS, Oluigbo CO, Wilkinson CC, McNatt S, **Handler MH**, Incidence of Cervical Spine Injury in Infants with Head Trauma. [Accepted] *J Neurosurg: Pediatrics*.

**Handler MH** and Foreman NB, Diffuse Intrinsic Pontine Gliomas, Letter to the Editor. *J Neurosurg: Pediatrics* 5:140-141, 2010

Gault J, Awad AA, Recksiek P, Shenkar R, Breeze R, **Handler MH**, Kleinschmidt-Demasters BK, Cerebral cavernous malformations: Somatic mutations in vascular endothelial cells. *Neurosurgery* 65:138-145, 2009.

Birks DK, Kleinschmidt-Demasters BK, Donson AM, Barton VN, McNatt SA, Foreman NK, **Handler MH**, Claudin 6 Is a Positive Marker for Atypical Teratoid/Rhabdoid Tumors. *Brain Pathol*, 2009,[Epub ahead of print].

Liu AK, Bagrosky B, Fenton LZ, Gaspar LE, **Handler MH**, McNatt SA, Foreman NK, Vascular abnormalities in pediatric craniopharyngioma patients treated with radiation therapy. *Pediatr Blood Cancer* 52:227-30. 2009

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**Handler MH** and Callahan B, Laparoscopic Placement of Distal Ventriculoperitoneal Shunt Catheters. , *J Neurosurg: Pediatrics* 2:231-236, 2008.

Hazrati LN, Kleinschmidt-Demasters BK, **Handler MH** et al., Astrocytic Inclusions in Epilepsy: Expanding the Spectrum of Filaminopathies. *J Neuropathol Exp Neurol* 67:669-76, 2008

Jorgenson L, Reiter PD, Freeman JE, Winston KR, Fish D, McBride LA, **Handler MH**. Vancomycin disposition and penetration into ventricular fluid of the central nervous system following intravenous therapy in patients with cerebrospinal devices. *Pediatr Neurosurg* 43(6):449-55, 2007

Bernard TJ, Mull BR, **Handler MH**, , et al., An 18-year-old Man with Fenestrated Vertebral Arteries, Recurrent Stroke and Successful Angiographic Coiling. *J Neurol Sci.* 15:260(1-2):279-82. 2007 Epub 2007.

Donson AM, Addo-Yobo SO, **Handler MH**, Gore L, Foreman NK. MGMT promoter methylation correlates with survival benefit and sensitivity to temozolomide in pediatric glioblastoma. *Pediatr Blood Cancer* 48(4):403-7, 2007.

Sowar K, Straessle J, Donson AM, **Handler MH**, Foreman N, Predicting which children are at risk for ependymoma relapse. *J Neurooncol* ;78(1):41-6, 2006. Epub 2006 Mar 31.

Townsend N, **Handler MH**, Fleitz J, Foreman N. Intramedullary spinal cord astrocytomas in children. *Pediatr Blood Cancer.* 43(6):629-32, 2004

Smith A, Weng E, **Handler M**, Foreman N. Intracranial Germ Cell Tumors-A Single Institution Experience and a Review of the Literature. *J Neuro-Oncolog* 68(2):153-9, 2004

McDowell BC, Morton BE, Janik JS,...**Handler MH**, et. al, Separation of conjoined pygopagus twins. *Plast Recon Surg* 111(6):1998-2002, 2003

Gore L, Greffe BS, Rothenberg SS, Erickson M, **Handler MH**. Long-term survival after intralesional resection and multi-modal therapy of thoracic spine osteosarcoma. *Medical and Pediatric Oncology*, 40(6):400-402, 2003

Eule JM, Erickson MA, , O'Brien MF, and **Handler MH**, Chiari I Malformation Associated with Syringomyelia and Scoliosis: A 20 year Review of Surgical and Non-Surgical Treatment in a Pediatric Population. *Spine*, 27:1451-1255, 2002.

Orr LC, Fleitz J, McGavran L, Wyatt-Ashmead J, **Handler MH**, and Foreman NK, Cytogenetics in Pediatric Low-Grade Astrocytomas. *Med Pediatr Oncol* 38: 173-7, 2002.

Fenton LZ, Sirotnak AP, **Handler MH**, Parietal Pseudofracture and Spontaneous Intracranial Hemorrhage Suggesting Nonaccidental Trauma: Report of 2 Cases. *Pediatric Neurosurgery* 33:318-322, 2000.

Disabato JA, **Handler MH**, Strain JD, Flietz JM, and Foreman NK: Successful Use of Intracavitary Bleomycin for Low-Grade Astrocytoma Tumor Cyst. *Pediatric Neurosurgery* 31:246-250, 1999.

Weinberg JS, Freed DL, Sadock J, **Handler MH**, Wisoff JH, and Epstein FJ: Headache and Chiari I Malformation in the Pediatric Population. *Pediatric Neurosurgery* 29:14-18, 1998.

Patel U, Pinto RS, Miller DC, **Handler MH**, Rorke LB, Epstein FJ, and Kricheff II: MR of Spinal Cord Ganglioglioma. *Am J Neuroradiol* 19:879-887, 1998.

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Foreman N, **Handler M** and Hay T: Chemotherapy for Spinal Cord Astrocytoma (letter). *Medical and Pediatric Oncology* 82:311-312, 1998.

**Handler M**: A Complication in Removing a Retained Ventricular Catheter Using Electrocautery (letter). *Pediatric Neurosurgery* 25:276, 1996.

Epstein F and **Handler M**, eds., Craniopharyngioma: The Answer. *Pediatric Neurosurgery* 21 (S1):1994.

**Handler M**, Abbott RI, Lee M: Near-fatal Complication of Endoscopic Third Ventriculostomy: Case Report. *Neurosurgery* 35:525-528, 1994.

Bridges N, Rifkinson-Mann S, **Handler M**, Epstein F: Planning Ventriculoperitoneal Shunts in Infants and Small Children. *Pediatric Neuroscience* 14: 191-195, 1988.

**Handler M**, Ho V, Whalen M, Budzilovich G: Intracerebral Toxoplasmosis in Patients with Acquired Immunodeficiency Syndrome. *Journal of Neurosurgery* 59: 994-1001, 1983.

Whalen M, Kricheff I, **Handler M**, et al.: Acquired Immune Deficiency Syndrome: Cerebral Computed Tomographic Manifestations. *Radiology* 149: 477-484, 1983.

#### **Book Chapter:**

**Handler M** and Batchelder P, "Evaluation of a Child with a Ventricular Shunt for Hydrocephalus," in Berman, S, ed., *Pediatric Decision Making*, 4th Edition, Harcourt Brace, 2003.

#### **Presentations:**

"We should stereotactically biopsy all diffuse pontine gliomas," **Handler MH**, Foreman NB. Meeting of the American Society of Pediatric Neurosurgeons, Grand Cayman, January 2010.

"We should stereotactically biopsy all diffuse pontine gliomas," **Handler MH**, Foreman NB. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Boston, November 2009

"Corpus callosotomy outcomes: the Denver Children's experience," Kucia E, Koh S, Levisohn PM, Knupp K, Laoprasert P and **Handler MH**. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Boston, November 2009

"Pediatric hemispherectomy—a single institution recent experience," **Handler MH**, Zawadzki L, M.D. Knupp K, Koh S, Laoprasert P. Meeting of the American Society of Pediatric Neurosurgeons, Kohala Coast, Hawaii, January 2009.

"Incidence of cervical spine injury in infants with head trauma," **Handler MH**, Katz JS, Wilkinson CC and McNatt S. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Spokane, November 2008.

"A novel adult rat model of tethered spinal cord," **Handler MH**, Callahan G, Ellison K, Davies SJ. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Spokane, November 2008.

"Claudin 6 Is a Positive Marker for Atypical Teratoid/Rhabdoid Tumors," McNatt SA, Birks DK, Donson AM, Kleinschmidt-Demasters BK, Barton VN, Foreman NK, **Handler MH**. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Spokane, November 2008.

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- “Outcome after Aggressive Surgery for Neocortical Epilepsy,” **Handler MH** and Laoprasert P. Meeting of the American Society of Pediatric Neurosurgeons, Los Cabos, Mexico, Feb 2008
- “Laparoscopic placement of ventriculoperitoneal shunts,” Callahan B and **Handler MH**. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Miami Beach, November 2007.
- “Stereotactic radiosurgery for recurrent ependymomas,” Trinidad E, **Handler MH**, Winston K, Forman NK and Liu A. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Miami Beach, November 2007.
- “Epilepsy surgery in infants under one year of age,” Szentirmai O, Laoprasert P, Knupp K, Winston K, and **Handler MH**. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Miami Beach, November 2007.
- “Gefitinib is effective against juvenile pilocytic astrocytoma *in-vitro*,” Donson AM, Addo-Yobo S, **Handler MH**, Gore L, Foreman NK. *12<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Nara, Japan, June 2006.
- “MGMT promoter methylation correlates with survival benefit and sensitivity to temozolomide in pediatric glioblastoma,” Donson AM, Addo-Yobo S, **Handler MH**, Gore L, Foreman NK. *12<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Nara, Japan, June 2006.
- “The potential for IL13RA-2-targeted therapy in recurrent ependymoma,” Donson AM, Straessle J, **Handler MH**, Gore L, Foreman NK. *12<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Nara, Japan, June 2006.
- “Over-expression of ERBB3 and SOX10 in juvenile pilocytic astrocytoma,” Donson AM, Addo-Yobo S, **Handler MH**, Gore L, Foreman NK. *12<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Nara, Japan, June 2006.
- “Predicting which children are at risk for ependymoma relapse,” Donson AM, Sowar K, Addo-Yobo S, **Handler MH**, Gore L, Foreman NK. *12<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Nara, Japan, June 2006.
- “Stereotactic radiosurgery as a curative adjunct in incompletely resected recurrent ependymomas,” [Poster] **Handler MH**, Foreman NK and Winston K. *12<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Nara, Japan, June 2006.
- “Stereotactic radiosurgery as a curative adjunct in incompletely resected recurrent ependymomas,” **Handler MH**, Foreman NK and Winston K. Meeting of the American Society of Pediatric Neurosurgeons, Grand Exuma, Bahamas, 3 February 2006.
- “Lack of morbidity for ‘second’ operations in ependymomas.” [Poster]. **Handler MH**, Batchelder P and Foreman N. *11<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Boston, June 2004.
- “A study of sequential high dose cytophosphamide and high dose carboplatin with peripheral stem cell rescue in resistant or recurrent pediatric brain tumors.” [Poster] Foreman N, **Handler MH**, et al., *11<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Boston, June 2004.

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- “Intramedullary spinal cord astrocytomas in children,” [Poster], Foreman N, Townsend N, **Handler MH** and Fleitz J. *11<sup>th</sup> International Symposium on Pediatric Neuro-Oncology*, Boston, June 2004.
- “An internet site for patients’ shunt information,” [Poster], Batchelder PL, **Handler MH**, and Solomon C. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Salt Lake City, December 2003.
- “Late presenting shunt infections,” [Poster], Batchelder PL, Lopez J, Dolan S, and **Handler MH**. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Salt Lake City, December 2003.
- “Ventriculo-subgaleal shunts in small premature infants,” **Handler M**. *Pediatric Section of the Latin American Federation of Neurosurgeons*, Santiago de Cuba, Cuba, March 2003.
- “Intracranial germ cell tumors—a single institution experience and review of the literature,” Smith A, Weng E, **Handler M**, Foreman N. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Fibrinolysis in pediatric brain tumors,” Smith A, Jacobson L, Foreman N, **Handler MH**, Manco-Johnson M. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Psychosocial survivorship issues: parent’s perspective,” Tilley K, Foreman N and **Handler MH**. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Cytogenetics in recurrent ependymomas,” **Handler MH**, Wyatt-Ashmead J, Fleitz J and Foreman N. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Small pituitary stalk lesions: observations and recommendations,” [Poster], **Handler MH**, Beauchamp K, and Foreman N. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Dural based tumors in children: a wide range of unusual pathology,” **Handler MH** and Sarin H. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Accumulation of ceramide results in apoptosis in glioblastoma treated with tamoxifen,” [Poster] Fleitz J, Donson A, **Handler M**, and Foreman N. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Abrogation of immunosuppressive gangliosides in glioblastoma,” [Poster] Donson A, Fleitz J, **Handler M**, and Foreman N. *10<sup>th</sup> International Symposium on Paediatric Neuro-Oncology*, London, June 2002.
- “Cytogenetics in recurrent ependymomas,” **Handler MH**, Wyatt-Ashmead J, Fleitz J and Foreman N, *Neurosurgery in the Rockies*, Vail CO, March 2002.
- “Cytogenetics in recurrent ependymomas,” **Handler MH**, Wyatt-Ashmead J, Fleitz J and Foreman N, Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, New York City, December 2001.
- “Small pituitary stalk lesions: observations and recommendations,” [Poster], Beauchamp K, **Handler MH**, and Foreman N, Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, New York City, December 2001.



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- “Dural based tumors in children: a wide range of unusual pathology,” Sarin H and **Handler MH**, Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, New York City, December 2001.
- “Subdural Fluid Collection as Indication of Hydrocephalus,” Beauchamp K and **Handler MH**, Meeting of the Rocky Mountain Neurosurgical Society, Steamboat Springs CO, June 2001.
- “Outcome of Scoliosis After Chiari Decompression,” with Eule J M, Batchelder P, Erickson MA and O’Brien M. *Neurosurgery in the Rockies*, Vail CO, March 2001.
- “Outcome of Scoliosis After Chiari Decompression,” with Eule J M, Batchelder P, Erickson MA and O’Brien M. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Coronado, CA, December 2000.
- “Aggressive Endoscopic Management of Primary Intracranial Cysts,” Meeting of the Rocky Mountain Neurosurgical Society, Alyeska, Alaska, June 2000.
- “Prognostic Significance of Cytogenetics in Pediatric Low-Grade Astrocytomas,” [Poster] **Handler M**, Orr BS, McGavran L, Fleitz J, Wyatt-Ashmead J, Barleben AR, , and Foreman NK, at the 9<sup>th</sup> *International Symposium on Pediatric Neuro-oncology*, San Francisco CA , June 2000.
- “Current radiologic adjuncts to successful surgical removal of pediatric tumors of the head and neck.” [Poster] Harned RK, II, Hay TC, Chan KH, **Handler MH**, Kumpe DA. 43<sup>rd</sup> Annual Meeting of the Society for Pediatric Radiology, Naples, FL, April 29 - May 6, 2000.
- “Radiation Induced Brain Tumors,” with Frueh K and Foreman N. *Neurosurgery in the Rockies*, Vail CO, March 2000.
- “Radiation Induced Brain Tumors,” with Frueh K and Foreman N, Meeting of the American Society of Pediatric Neurosurgeons, Kona, Hawaii, February 2000.
- “Aggressive Endoscopic Management of Primary Intracranial Cysts,” Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Atlanta, GA, December 1999.
- “Abdominal ‘Stealth’ Incisions for Ventriculoperitoneal Shunts,” Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Atlanta, GA, December 1999.
- “Ventriculo-subgaleal Shunts for Hydrocephalus in Small Premature Infants,” with Batchelder P, Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Indianapolis IN, December 1998.
- “Mobilizing the Umbilicus for Optimal Placement of a Baclofen Pump,” [Poster], Meeting of the joint Section on Pediatric Neurological Surgery of the AANS and CNS, Indianapolis IN, December 1998.
- “Stereolithographic Models of Complex Tumors,” Meeting of the Rocky Mountain Neurosurgical Society, Vail, CO, June 1998.
- “Stereolithographic Models of Complex Tumors,” [Poster], Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, New Orleans, December 1997.
- “A Technique Allowing Awake Craniotomy in Children,” with Lane G, Gollob P and Agarwal R. Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Charleston, SC, December 1996.

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“Subdural Fluid as an Indication of Hydrocephalus,” [Poster], Meeting of the Joint Section on Pediatric Neurological Surgery of the AANS and CNS, Charleston, SC, December 1996.

“Ventriculo-Subgaleal Shunts for Hydrocephalus in Small Premature Infants,” with Batchelder P. Meeting of the Rocky Mountain Neurosurgical Society, Telluride, CO, June 1996.

“Chiari I Malformation and Headache: Who will benefit from operation?” with Epstein F, Wisoff J and Abbott IR. Meeting of the Pediatric Section of the AANS and CNS, St. Louis, December 1994.

“Effect of Naloxone on Focal Cerebral Ischemia in the Rat,” [Poster] with Chalif D, Young W and Flamm E, 69th Annual Clinical Congress of the American College of Surgeons, Atlanta, October 1983.

“Intracerebral Structural Lesions in the Acquired Immunodeficiency Syndrome,” with Ho V, Budzilovich G and Whalen M, 33rd Annual Meeting of the Congress of Neurological Surgeons, Chicago, October 1983.

### **Invited Presentations**

“When less aggressive surgery is better in pediatric brain tumors,” Luncheon Seminar, Congress of Neurological Surgeons 59<sup>th</sup> Annual Meeting, New Orleans, 28 October 2009.

“How I do it—Lesionectomy in epilepsy” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

“How I do it—Hemispherectomy” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

“How I do it—Benign spine tumor” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

“How I do it—Post hemorrhagic hydrocephalus” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

“How I do it—Chiari I malformation ” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

“How I do it—Myelomeningocele” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

“How I do it—Infratentorial supracerebellar approach” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

“How I do it—hypothalamic/chiasmatal tumors,” *Second ISPN Cuban Course on Pediatric Neurosurgery*, Havana, Cuba Feb 12-14, 2009

”Neurosurgical Management of Intracranial Pressure,” *The Cutting Edge—Surgical Nursing Care*, The Children’s Hospital, Denver 26 January 2007.

“Less Aggressive Surgical Options in Pediatric Brain Tumors,” Congress of Neurological Surgeons 55<sup>th</sup> Annual Meeting, Boston, 11 October 2005.

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- “Reflections on Professionalism,” at Induction Ceremony, AOA Medical Honor Society, Denver, 25 May 2004.
- “Introduction to Neurosurgery,” at Surgery Club, UCHSC School of Medicine, 7 May 2003.
- “Pediatric Trauma Case Presentation,” at *Pediatric Trauma Conference 2002*, The Children’s Hospital, Denver, 10 December 2002.
- “Closed Head Injury,” at *Pediatric Trauma Conference 2001*, The Children’s Hospital, Denver, 11 December 2001.
- “Cerebrovascular Diseases of Infancy: Neurosurgical Aspects,” at *XXIV [Cuban] National Congress of Pediatrics*, Havana Cuba, 11-15 June, 2001
- “Surgical Options in the Management of Pediatric Epilepsy,” at *XXIV [Cuban] National Congress of Pediatrics*, Havana Cuba, 11-15 June, 2001
- “Surgical Management of Spasticity,” at *Spasticity Management: A Multidisciplinary Approach*. Sponsored by the Medtronic Corporation. Hotel Del Coronado, Coronado CA, 19-20 January, 2001.
- “Surgical Technique for Intrathecal Baclofen Therapy,” at *Spasticity Management: A Multidisciplinary Approach*. Sponsored by the Medtronic Corporation. Hotel Del Coronado, Coronado CA, 19-20 January, 2001.
- “Surgical Complications of the Intrathecal Baclofen Pump,” at *Spasticity Management: A Multidisciplinary Approach*. Sponsored by the Medtronic Corporation. Hotel Del Coronado, Coronado CA 19-20 January, 2001.
- “Pediatric Trauma,” at the *International Pediatric Encounter*, Havana, Cuba 26-28 November, 2000.
- “Technology and Change in Pediatric Neurosurgery,” at the *International Pediatric Encounter*, Havana, Cuba 26-28 November, 2000.
- “Aggressive Endoscopic Management of Primary Intracranial Cysts,” at the *International Pediatric Encounter*, Havana, Cuba 26-28 November, 2000.
- “Office Evaluation of the Child with a CSF Shunt,” at *Surgical Dilemmas Conference*, The Children’s Hospital, Denver, 22 September 2000.
- “Neurosurgery for Spasticity” at *Pills, Pokes, Plasters & Pumps: Spasticity Management Update*, The Children’s Hospital, Denver CO 6 May 2000.
- “Neurosurgical Management of Spasticity in the Pediatric Patient,” at *Advances in the Management of Spasticity of Cerebral Origin*. Sponsored by the Medtronic Corporation. The St. Regis Hotel, Aspen, CO, 29 - 30 October, 1999.
- “Neurosurgery Update: Arnold Chiari Malformation, Tethered cord, and Syringomyelia,” at *Colorado Spina Bifida Association Annual Conference*. The Children’s Hospital, Denver, CO, 25 September 1999.
- “Technical Innovations in Pediatric Neurosurgery,” at *Born Too Soon: The Pediatric Cutting Edge*. Sponsored by the Hospital for Infants and Children at Presbyterian/St. Lukes Medical Center. Inverness Hotel, Englewood, CO, 18 April 1998.
- “Technical Innovations in Brain Tumor Surgery,” at *Team up for Triumph: Patient and Family Brain Tumor Conference for the Rocky Mountain Region*. Renaissance Denver Hotel, 17-18 October, 1997.

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“Neurosurgical Options in Pediatric Spasticity,” at *Pediatric Spasticity: Tone Management Techniques*. The Children’s Hospital, 15 March 1997.

“Hydrocephalus: Now and Tomorrow,” at meeting of the Hydrocephalus Association of Colorado. The Children’s Hospital, 15 February 1997.

“Arnold Chiari Malformation, Tethered Cord, and Syringomyelia,” at the Meeting of the Spina Bifida Association of Central New Jersey, March 1991

**Teaching Conferences:**

“Hydrocephalus in the Neonate—Treatment and Outcomes.” NICU Teaching Conference, The Children’s Hospital, Aurora CO, 13 November 2007

“Pediatric Epilepsy Surgery.” Anesthesia teaching conference, The Children’s Hospital, Denver, 18 June 2007

“The Critical role of the Neurosurgeon in the treatment of pediatric brain tumors.” Heme/Onc/BMT Fellows teaching conference, The Children’s Hospital, Denver, 11 March 2007.

“Pediatric Brain Tumors, Part 3,” Neurosurgery Resident Teaching Conference, Department of Neurosurgery UCDHSC, 2 May 2006

Pediatric Brain Tumors, Part 2,” Neurosurgery Resident Teaching Conference, Department of Neurosurgery UCDHSC, 18 April 2006

“Management of Shunted Patients, and Neuroendoscopy,” Pediatric Neurology Teaching Conference, The Children’s Hospital, Denver, 14 April 2006.

“Pediatric Brain Tumors, Part 1,” Neurosurgery Resident Teaching Conference, Department of Neurosurgery UCDHSC, 7 March 2006.

“Management of Shunted Patients, and Neuroendoscopy,” Neurosurgery Resident Teaching Conference, Department of Neurosurgery UCDHSC, 7 February 2006.

“Tethered Spinal Cord,” Neurosurgery Resident Teaching Conference, Department of Neurosurgery UCDHSC, 17 January 2006.

“Pediatric Traumatic Brain Injury Update,” Exempla Lutheran Medical Center, 8 November 2005

“The Child with an Abnormally Shaped Head,” Lecture to PA students, Fitzsimmons Campus Building 500, 20 October 2005.

“Pediatric Head Trauma Update,” Boulder Community Hospital, 23 June 2005

“The Child with an Abnormally Shaped Head,” Pediatric Office Update, The Children’s Hospital, 7 April 2005.

“Pediatric Hydrocephalus,” Pediatric Resident Teaching Conference, The Children’s Hospital, Denver, 17 March 2005.

“Craniotomy—What It Means for You.” Cutting Edge: Care for the Pediatric Surgical Patient, Nursing Education Seminar, The Children’s Hospital, 13 May 2004.

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- “Timing of Surgical Intervention in Post-Hemorrhagic Hydrocephalus,” Neonatology Conference, The Children’s Hospital, Denver, 15 May 2003.
- “Tethered Spinal Cord,” Pediatric Resident Teaching Conference, The Children’s Hospital, Denver, 25 March 2003
- “Late issues in Spina Bifida.” Fifth Annual Statewide conference of the Colorado Spina Bifida Association, The Children’s Hospital, Denver, 28 September 2002.
- “Third Ventricular Tumors: Issues and options in management.” Neurology/Neurosurgery Grand Rounds, UCHSC, 27 February 2002
- “Spina Bifida,” Perinatal Teaching Conference, Exempla/St. Joseph Hospital, 24 September 2001
- “Tethered Spinal Cord,” Neurosurgery Resident Teaching Conference, June 2001
- “Tethered Spinal Cord,” Pediatric Teaching Conference, P/SL Medical Center, Denver, November 1999
- “Tethered Spinal Cord,” Pediatric Resident Teaching Conference, Denver Health Medical Center, Denver, 12 May 1999
- “Tethered Spinal Cord,” Pediatric Resident Teaching Conference, The Children’s Hospital, Denver, 26 April 1999
- “Spina Bifida,” Pediatric Resident Teaching Conference, The Children’s Hospital, Denver, 9 September 1998
- “Ventriculo-subgaleal Shunts for Hydrocephalus in Small Premature Infants,” Neurosurgery Grand Rounds, The Children’s Hospital, Denver, July, 1997
- “Craniosynostosis,” Pediatric Resident Teaching Conference, The Children’s Hospital, Denver, 1997
- “Craniosynostosis,” Pediatric Resident Teaching Conference, Denver Health Medical Center, Denver, 1997
- “Craniosynostosis,” Pediatric Teaching Conference, Porter Hospital, Denver, November, 1996
- “Ventriculo-subgaleal Shunts for Hydrocephalus in Small Premature Infants,” Neonatology Teaching Conference, The Children’s Hospital, Denver, April, 1996
- “Ventriculo-subgaleal Shunts for Hydrocephalus in Small Premature Infants,” City-Wide Fetal Board, P/SL Medical Center, Denver, September, 1995
- “Neuroimaging,” Nursing Teaching Conference, P/SL Medical Center, Denver, November 1995
- “Hydrocephalus,” Nursing Teaching Conference, P/SL Medical Center, Denver, November 1995
- “Neuroimaging,” Nursing Teaching Conference, The Children’s Hospital, Denver, May, 1995
- “Hydrocephalus,” Nursing Teaching Conference, The Children’s Hospital, Denver, May, 1995
- “Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, March 1993
- “Hydrocephalus,” Pediatric Resident Teaching Conference, UMDNJ, New Brunswick, NJ, February, 1993
- “Spina Bifida,” Pediatric Resident Teaching Conference, UMDNJ, New Brunswick, NJ, November 1992

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“Tethered Spinal Cord,” Pediatric Resident Teaching Conference, UMDNJ, New Brunswick, NJ, November 1992  
“Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, September 1992

“Subarachnoid Hemorrhage—Diagnosis and Management,” Medical Grand Rounds, The Medical Center at Princeton, Princeton, NJ, June 1992

“Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, March 1992

“Carotid Artery Dissection,” Medical Grand Rounds, The Medical Center at Princeton, Princeton, NJ, October, 1990

“Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, September 1991

“Neurosurgical Implications of Achondroplasia,” Pediatric Resident Teaching Conference, UMDNJ, August 1991

“Management of Spontaneous Intracerebral Hemorrhage,” Medical Grand Rounds, The Medical Center at Princeton, Princeton, NJ, June 1991

“Hydrocephalus,” Pediatric Resident Teaching Conference, UMDNJ, New Brunswick, NJ, May, 1991

“Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, March 1991

“Field Management of Head and Spine Injuries,” EMT training Course, Somerset Hospital, January 1991

“Surgical Management of Brain Tumors,” Medical Grand Rounds, The Medical Center at Princeton, Princeton, NJ, October, 1990

“Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, September 1990

“Tethered Spinal Cord,” Joint Neurosurgery/Orthopedic Surgery Spine Conference, UMDNJ, New Brunswick, NJ, 23 May 1990

“Spina Bifida,” Pediatric Resident Teaching Conference, UMDNJ, New Brunswick, NJ, March, 1990

“Management of Basilar Skull fractures,” Neurosurgery Grand Rounds, UMDNJ, New Brunswick, NJ, June, 1989

“Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, March 1989

“Hydrocephalus,” Pediatric Resident Teaching Conference, UMDNJ, New Brunswick, NJ, January, 1989

“Neurological Assessment for ICU Nurses,” Critical Care Training Course, Somerset Hospital, Somerville, NJ, September 1988

“Management of Head Trauma,” Surgical Resident Teaching Conference, UMDNJ, New Brunswick, NJ, November 1987

“Diagnosis and Management of Spinal Cord Injury,” Surgical Resident Teaching Conference, UMDNJ, New Brunswick, NJ, September 1987