

## Curriculum Vitae

Peter P. Sun, M.D.

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Date of Birth: October 6, 1965

### Education:

09/82-05/86 B.S. University of Southern California. Los Angeles, CA  
09/87-05/91 M.D. Columbia University, College of Physicians & Surgeons. New York, NY

### Postgraduate Training and Fellowship Appointments:

07/91-06/92 Intern. Surgery, University of California, Davis. Sacramento, CA  
07/92-02/95 Resident. Neurosurgery, University of California, Davis. Sacramento, CA  
03/95-12/96 Senior/Chief Resident. Neurosurgery, Yale University. New Haven, CT  
01/97-06/97 Chief Resident. Spine Surgery, Neurosurgery & Orthopedics, New York University. New York, NY  
07/97-01/98 Fellow. Pediatric Neurosurgery, University of Pennsylvania, Children's Hospital of Philadelphia. Philadelphia, PA

### Faculty Appointments:

07/04-Current Residency Training Site Director (Children's Hospital and Research Center at Oakland), Department of Neurosurgery  
University of California, San Francisco  
07/01-Current Assistant Clinical Professor, Department of Neurosurgery  
University of California, San Francisco  
02/98-08/00 Assistant Professor, Department of Neurosurgery  
University of Pennsylvania, Philadelphia, PA

### Hospital and Administrative Appointments:

10/00-Current Director, Pediatric Neurosurgery, Children's Hospital and Research Center, Oakland, CA  
10-00-Current Staff Neurosurgeon, Alta Bates Medical Center, Berkeley, CA  
10/00-Current Staff Neurosurgeon, Good Samaritan Hospital, San Jose, CA  
10/01-Current Attending Neurosurgeon, UCSF Medical Center, San Francisco, CA  
08/07-Current Consultation Staff, Renown Medical Center, Reno, NV  
02/98-10/00 Attending Neurosurgeon, Children's Hospital of Philadelphia, Philadelphia, PA  
02/98-10/00 Attending Neurosurgeon, Alfred duPont Hospital for Children, Wilmington, DE

Specialty Certification:

2002 American Board of Neurological Surgery  
2006 American Board of Pediatric Neurological Surgery  
2010 American Academy of Pediatrics, Specialty Fellow

Licensure:

California G076016  
Nevada 11723  
DEA BP5372216

Awards and Honors:

1990 NIH National Research Fellowship Award  
Columbia University College of Physicians and Surgeons  
2002-Current "America's Top Surgeons" Consumers Research Council  
2002-Current "Top Doctors" U.S. News and World Report  
2003-Current "Best Doctors" Boston, MA  
2012-Current "Super Doctors" Minneapolis, MN

Memberships in Professional and Scientific Societies:

Congress of Neurological Surgeons (CNS), member  
American Association of Neurological Surgeons (AANS), member  
American Society of Craniofacial Surgery  
Children's Oncology Group Neurosurgery Committee  
-Study Coordinator, COG-9934: Systemic chemotherapy, Second look Surgery and Conformal Radiation for Infants with Medulloblastoma  
Joint Pediatric Section CNS & AANS, member  
-Publication Committee of the AANS/CNS Joint section on Pediatric Neurological Surgery 2008-  
Invited Reviewer: *Pediatrics, Child's Nervous System, Pediatric Hematology & Oncology, Journal of Pediatric Rehabilitation Medicine, Journal of Neuro-oncology*  
International Society of Craniofacial Surgeons, member  
Western Neurosurgery Society, member

American Society of Pediatric Neurosurgeons, active member

Hospital Committee:

1999-2000	Trauma Committee, Children's Hospital of Philadelphia
2002-2004	Medical Staff Executive Committee, Children's Hospital and Research Center at Oakland
2000-	Surgical Chiefs Committee, Children's Hospital and Research Center at Oakland

Teaching:

Children's Hospital Oakland Resident noon conference. Quarterly  
UC Berkeley Pre-medical Mentor  
UCSF Department of Neurosurgery Resident seminars and case presentations.

Invited Presentations:

December 1994

Joint Section on Pediatrics of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons Annual Meeting, St. Louis - "Endodermal derivatives in split cord malformations"

October 1997

Joint Section on Pediatrics of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons Annual Meeting, New Orleans - "MRI for evaluation of cervical spine injury in young children"

October 1997

Joint Section on Pediatrics of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons Annual Meeting, New Orleans - "The infant face scale: A novel coma scale for children <2 years old".

May 1998

Children's Seashore House and Children's Hospital of Philadelphia Continuing Medical Education Symposium -Pediatric Spinal Cord Injury: Across the Continuum. "Pediatric spinal injury"

August, 1998

Brown University, Summer Focus Course, Providence, RI. - "The Brain, the Mind, and the Surgeon." Course Instructor.

October 1998

North American Spine Society. San Francisco, CA.- "Spectrum of occipitoatlantoaxial injury in young children."

October, 1999

The 5<sup>th</sup> Annual Spinal Bifida Conference, Alfred I. duPont Hospital for Children –“Fetal surgery for myelomeningocele”

November, 1999

Grand Rounds, Thomas Jefferson University Department of Neurosurgery -  
“Ventriculomegaly: To shunt or not to shunt”

March, 2000

Pediatric Surgical Update, Children’s Hospital of Philadelphia – “Head shape, diagnosis and management”

May, 2000

Grand Rounds, Thomas Jefferson University Department of Neurosurgery,- “Diagnosis and treatment of craniosynostosis”

June, 2000

International Society of Pediatric Neuro-oncology, San Francisco, CA - “Surgery of infant brain tumors”

November, 2000

American Academy of Physical Medicine and Rehabilitation Annual Assembly, San Francisco, CA. Pediatric Review Course- State of the Art Spasticity Management. “Intrathecal baclofen for the management of spasticity”

January, 2001

Special Seminar: Spasticity Management: Focus on Rehabilitation, Children’s Hospital Oakland, Oakland, CA – “ Neurosurgical treatment options for spasticity”

April, 2001

Seminar: Pediatric Critical Care- The First Hours. Reach Air Ambulance – “Pediatric neurological injuries”

July, 2001

Grand rounds, Children’s Hospital Oakland, Oakland, CA-“ Posterior fossa brain tumors in Children”

September, 2001

Grand rounds, University of California, Davis, Department of Neurosurgery. Sacramento, CA – “ Surgical management of pediatric posterior fossa brain tumors”

November, 2001

CME Pediatric Neuroscience Symposium, University of California, San Francisco, Department of Neurological Surgery and Division of Child Neurology. San Francisco, CA – “ Spinal injuries in children”

November, 2002

32<sup>nd</sup> Annual Fall Conference, “ Pediatric & Adolescent Sports Medicine” Children’s Hospital Oakland, Seaside, California – “ Bell ringing and neck stabilization: What to do about concussions and neck injuries”

June, 2003

Grand Rounds, Children’s Hospital Oakland, Oakland, CA-“ Lumps, bumps bits and spots on the back, the tethered spinal cord”

October, 2003

Seventh Reach Air Medical Services pediatric Critical Care: the First Hours, Napa, CA\_ “ Pediatric head injuries”

April, 2004

Grand Rounds, UCSF Department of Neurosurgery, San Francisco, CA: “Pediatric spinal injuries”

April, 2005

American Association of Neurological Surgeons Annual Meeting, New Orleans, LA: Practical Course - Innovations in Pediatric Neurosurgery – “Pediatric spinal instrumentation”

October, 2005

Joint Section on Pediatrics of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons Annual Meeting, Orlando – “Progression of arachnoid cysts in young children”

April, 2006

American Association of Neurological Surgeons Annual Meeting, San Francisco: Practical Course – Incorporating New Technologies in a Pediatric Neurosurgical Practice – “Pediatric cervical spinal instrumentation”

April, 2006

American Association of Neurological Surgeons Annual Meeting, San Francisco: Breakfast Seminar - Management of Pediatric Vertebral Column Disorders – “Craniovertebral junction”

April, 2006

American Association of Neurological Surgeons Annual Meeting, San Francisco: Breakfast Seminar – Spinal Axis Trauma – “ Pediatric cervical spine trauma”

September, 2006

International Society of Pediatric Neurosurgery, Annual Meeting, Taipei, Taiwan: Pediatric Craniocervical Fusion with C2 Translaminar Screw Fixation

September, 2006

Western Neurosurgical Society, Annual Meeting, Blaine, WA: C2 Translaminar Screw Fixation for Craniocervical Fusion in Children

April, 2007

American Association of Neurological Surgeons Annual Meeting, Washington: Management of Pediatric Vertebral Column Disorders – “Disorders of the Pediatric Craniovertebral junction”

July, 2007

CME Course, University of California, San Francisco: Neurosurgery Update 2007 in the Wine Country, Napa – “Disorders of the Pediatric Craniovertebral junction”

February, 2008

American Society of Pediatric Neurosurgeons Annual Meeting, Cabo, Mexico: “Pediatric Craniocervical Fusion with C2 Translaminar Screw Fixation”

September, 2009

International Society of Craniofacial Surgery Biennial International Congress, Oxford, England: “Progressive Multisuture Synostosis and Papilledema following Metopic Craniosynostosis Repair”

July 2011

UCSF Neurosurgery Update in the Wine Country, Napa, California: “Posterior Fossa Brain Tumors: how to avoid complications and shunts”

Bibliography: Journal Articles

1. Onesti S, Baker C, Sun P & Solomon R: Transient hypothermia reduces focal ischemic brain injury in the rat. *Neurosurgery* 29:369-73, 1991.
2. Sun P, Shin J & Persing, J: Management of the ventricular shunt in posterior deformities of the skull in craniosynostosis. *J Craniofacial Surgery*, 8:38-41, 1997
3. Shin J, Sun P, Persing J: Secondary craniofacial management following initial correction of nonsyndromic craniosynostosis. *Clinics in Plastic Surgery* 23:415-28, 1997.
4. Sun P, Piepmier J: Tumors of the lateral ventricle. *Neurosurgical Quarterly* 7(4):286-300, 1997.
5. Durham S, Sun P, Schut L: Chiari malformations and hydrosyringomyelia. *Rev. Neurol.*, 27(156):231-237, 1998.
6. Durham S, Sun P & Sutton L. Surgically treated lumbar disc disease in the pediatric population: an outcome study. *J Neurosurgery* 92:1-6, 2000.

7. Sun P, Poffenberger J, Durham S & Zimmerman R. Spectrum of occipitoatlantoaxial injury in young children. *J Neurosurgery* 93:278-289, 2000
8. Durham S, Clancy R, Leuthardt E, Sun P, Kamerling S, Dominguez T, Duhaime AC. CHOP Infant Coma Scale (“Infant Face Scale”): a novel coma scale for children less than 2 years of age. *Journal of Neurotrauma*. 17 (9): 729-37, 2000
9. Sun P, Harrop J, Younkin D, Sutton L. Complete spontaneous resolution of childhood Chiari I malformation and associated syringomyelia. *Pediatrics* 107:182-184, 2001
10. Sutton L, Sun P, Adzick S. Fetal Neurosurgery. *Neurosurgery* 48(1):124-144, 2001.
11. Boockvar, J, Durham S, Sun P. Cervical spinal stenosis and sports-related cervical cord neuropraxia in children. *Spine* 26 (24): 2709-2713, 2001
12. Hosalkar H, Pill S, Sun P, Drummond D. Progressive spinal lordosis after laminoplasty in a child with thoracic neuroblastoma. *J Spinal Disorder Tech* 15 (1): 79-83, 2002
13. Koch, C, Gupta N, Sun P. Inutero treatment of hydrocephalus. *Childs Nerv Syst* 2003; 19: 574-86
14. Sanai N, Quinones-Hinojosa A, Gupta N, Perry V, Sun P, Wilson C, Lawton M. Pediatric intracranial aneurysms: durability of treatment following microvascular and endovascular management. *J Neurosurg: Pediatrics* 104: 82-89 2006
15. Lu D, Sun P: Bone Morphogenetic Protein (BMP) for Salvage Fusion in a Down Syndrome neonate with craniovertebral instability. *J Neurosurg: Pediatrics* 106: 480-483 2007
16. Cielo M, Avasarala K, Culbertson C, Hayes E, Sun P, Lee B. A toddler with shivering spells, leukocytosis and thrombocytopenia. *The Pediatric Infectious Disease Journal* 27: 65-66, 2008
17. Clark A, Auguste K, Sun P. Cervical spinal stenosis and sports-related cervical cord neuroapraxia. *Neurosurg Focus* 31 (5):E7, 2011
18. Clark A, Kuperman R, Auguste K, Sun P. Intractable episodic bradycardia resulting from progressive lead traction in an epileptic child with a vagus nerve stimulator: case report of a delayed complication. *J Neurosurg: Pediatrics* 9 (4):389-93, 2012
19. Clark A, Cage T, Aranda D, Parsa A, SunP, Auguste K, Gupta N. A systematic review of the results of surgery and radiotherapy on tumor control for pediatric craniopharyngioma. *Childs Nerv Syst*. Oct 23 ( Epub ahead of print) 2012

1. Pang D, Sahrakar K, Sun P: Pediatric spinal cord and vertebral column injuries. Neurological Surgery, 4<sup>th</sup> edition. Youman, J (ed.) W.B. Saunders Company. 1995, pp. 1991-2036.
2. Sun P, Persing J: Craniosynostosis. Principles of Pediatric Neurosurgery. Albright, L et al. (eds) W.B. Saunders Company. 1999, pp. 219-242
3. Sun P, Persing J: Craniosynostosis. Atlas of Pediatric Neurosurgery. Albright, L et al. (eds) W.B. Saunders Company. 2000, pp. 51-65
4. Sun P, Sutton L: The fetus with hydrocephalus. The Unborn patient: The Art and Science of Fetal Therapy. Adzick et al. (eds) W. B. Saunders Company. 2001 pp. 325-341
5. Pang D, Sun P: Pediatric spinal cord and vertebral column injuries. Neurological Surgery, 5<sup>th</sup> edition. Youman, J (ed.) W.B. Saunders Company. 2004, pp. 3515-3559
6. Ware M, Gupta N, Sun P, Brockmeyer D: Clinical biomechanics of the pediatric spine. Advanced Craniocervical Surgery in Children. Brockmeyer D. (ed) Theime. 2006, pp. 27-38
7. Ware M, Auguste K, Gupta N, Sun P, Brockmeyer D: Traumatic Injuries of the Pediatric Craniocervical Junction. Advanced Craniocervical Surgery in Children. Brockmeyer D. Theime. (ed) 2006, pp. 55-65
8. Eylem O, Sun P, Persing J: Craniosynostosis. Principles of Pediatric Neurosurgery. 2<sup>nd</sup> edition. Albright, L et al. (eds) W.B. Saunders Company. 2008, pp. 265-289