

8/16/06

Part I: General Information

Mark R. Proctor, MD

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Place of Birth: New York, New York

Education:

1986 - 1990 M.D. Columbia University, College of Physicians and Surgeons
New York, New York
1982 - 1986 B.A. Dartmouth College
Hanover, New Hampshire

Postdoctoral training:

| | | | |
|-------------|----------------|------------------------|---|
| 1997 - 1998 | Fellow | Pediatric Neurosurgery | Children's Hospital <i>Boston, MA</i> |
| 1996 - 1997 | Chief Resident | Neurosurgery | Georgetown University Medical Center <i>Washington, D.C.</i> |
| 1995 - 1996 | Research | Pharmacology Fellow | Georgetown University School of Medicine <i>Washington, D.C.</i> |
| 1993 | Resident | Neurotrauma | Shock Trauma Hospital, University of Maryland <i>Baltimore, MD</i> |
| 1992 - 1993 | Resident | Pediatric Neurosurgery | Children's National Medical Center <i>Washington, D.C.</i> |
| 1991 - 1996 | Resident | Neurosurgery | Georgetown University Medical Center <i>Washington, D.C.</i> |
| 1990 - 1991 | Intern | General Surgery | Columbia Presbyterian Medical Center <i>New York, New York</i> |

Licensure & Certification

| | | |
|------|-----------------|--|
| 2002 | Diplomate | American Board of Pediatric Neurological Surgery |
| 2001 | Diplomate | American Board of Neurological Surgery |
| 1997 | Medical License | Massachusetts |
| 1993 | Medical License | Maryland |
| 1992 | Medical License | District of Columbia |
| 1991 | Diplomate | National Board of Medical Examiners |

Academic Appointments

| | | |
|------|--------------------------------|---|
| 2003 | Assistant Professor of Surgery | Harvard Medical School, <i>Boston, MA</i> |
| 1998 | Instructor of Surgery | Harvard Medical School, <i>Boston, MA</i> |
| 1995 | Instructor, Surgery | Georgetown University Medical Center <i>Washington, D.C.</i> |

Hospital & Affiliated Institution Appointments

| | | |
|------|-------------------------------|---|
| 1997 | Staff Physician, Neurosurgery | Children's Hospital <i>Boston, MA</i> |
| 1997 | Staff Physician, Neurosurgery | Brigham and Women's Hospital, <i>Boston, MA</i> |
| 1998 | Staff Physician, Neurosurgery | Dana Farber Cancer Institute, <i>Boston, MA</i> |

Hospital Service Responsibilities

1997-present Neurosurgery service Children's Hospital

Major Administrative Responsibilities

| | | |
|---------------|---|---|
| 2000- present | Associate Director of Neurosurgery Resident Education | Children's Hospital Brigham and Women's Hospital |
| 2001-2004 | Admissions Committee | Harvard Medical School |

Committee Involvement

Children's Hospital

Trauma Executive Committee, Children's Hospital, Boston
Chairman, Laser Safety Committee, 2006

National

Congress of Neurological Surgeons-Executive Committee Liason
ThinkFirst National Injury Prevention Foundation- Member Board of Director, Chair of Efficacy Committee
Liason member, Executive Committee, Joint Section on Pediatrics of the AANS/CNS
Devices and Technology Committee, AANS/CNS

Retired committee appointments

Young Neurosurgeons Committee of the AANS/CNS
Education and Practice Management Committee of the AANS/CNS

Professional Societies

| | | |
|------|--|--------|
| 2003 | American Society of Pediatric Neurosurgeons | Member |
| 2003 | American Academy of Pediatrics | Fellow |
| 2000 | American College of Sports Medicine | Fellow |
| 1998 | Joint Section on Trauma of the AANS/CNS | Member |
| 1998 | Joint Section on Pediatrics of the AANS/CNS | Member |
| 1996 | Society for Neuroscience | Member |
| 1995 | American Epilepsy Society | Member |
| 1993 | American Association of Neurological Surgeons (AANS) | Member |
| 1993 | Congress of Neurological Surgeons | Member |
| 1986 | American Medical Association | Member |

Community Service Related to Professional Work

| | |
|------|--|
| 2002 | Founder and Sponsoring Surgeon, Boston Chapter ThinkFirst National Injury Prevention Foundation |
| 2002 | Member, Admissions Committee, Harvard Medical School |

Awards & Honors

| | | |
|-------------|---|---|
| 2002 | Community Child Health Fund grant to institute Boston chapter of Thinkfirst | Children's Hospital, Boston |
| 1997 - 1998 | Shillito Fellow in Pediatric Neurosurgery | Children's Hospital, Boston |
| 1995 - 1996 | Dixon Woodbury Clinical/Research Fellow | Epilepsy Foundation of America |
| 1989 - 1990 | Research Training Grant | National Institutes of Health |
| 1990 | Clinical Training Grant | Faculté de Médecine <i>Paris, France</i> |
| 1995 | Finalist, Clinical Research Competition | Georgetown University |
| 1987 - 1989 | Captain, Rugby Team | Columbia Physicians and Surgeons |
| 1985 | Marshall A. Robinson Award for Heavyweight Oarsman | Dartmouth College |
| 1982 - 1986 | Varsity Heavyweight Crew | Dartmouth College |
| 1982 - 1986 | Daniel Webster Scholar | Dartmouth College |
| 1982 | New York State Regents Scholarship | |
| 1982 | Bausch & Lomb Scientific Scholarship | |
| 1981 | Summer Research Training Grant | National Science Foundation / Indiana University |

Part II: Research, Teaching and Clinical Contributions

A. Narrative Report of Clinical Practice

I am currently a full-time staff physician in pediatric neurosurgery at Children's Hospital Boston, with staff appointments at Brigham and Women's Hospital and Dana Farber Cancer Institute. Areas of focus encompass all aspects of pediatric neurosurgery, with special focus on intraoperative imaging for brain tumors, spinal dysraphisms and congenital disorders of the brain and spine, craniofacial abnormalities and neuro-trauma. The complexity is on the order of the most difficult cases seen in the practice of pediatric neurosurgery. I am actively involved in the Craniofacial team, where we are national leaders in the treatment of children with craniosynostosis. I am also actively involved in the treatment of congenital, degenerative and traumatic disorders of the spine. I have an active practice in sports-related injuries and am course co-director for the Harvard Neurological Sports Injuries conference. I am the neurosurgical representative on the Trauma Executive Committee at Children's Hospital, and am actively involved in the treatment of these children and in modifying our treatment paradigms. We are currently forming a model center for the treatment of pediatric brain and spine injuries, and have developed clinical practice guidelines for the treatment of these conditions. I have also been instrumental in forming a unique Central Nervous Systems Injuries Follow Up Clinic staffed by myself, along with neurology, neuropsychiatry, and physiatry. I am also the founder and sponsoring surgeon of the Boston chapter of ThinkFirst, a national brain and spinal cord injury prevention program, which was initiated via a grant I obtained from the Community Child Health Fund. I am now on the Board of Directors of the national ThinkFirst foundation, and chair of the efficacy subcommittee. I have developed protocols, along with the neuroanesthesia team, for the use of intraoperative MRI in the treatment of neoplasms in the pediatric patient population, and am actively involved in surgery in this area. I was instrumental in obtaining an intraoperative MRI at Children's Hospital, Boston, the first of its kind in the country at a pediatric hospital.

B. Funding Information

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|-----------|----------------------------------|----|---|
| 2002-2003 | Children's Community Health Fund | PI | Foundation of Boston Chapter of ThinkFirst National Injury Prevention Program |
|-----------|----------------------------------|----|---|

C. Report of Teaching

Local contributions

a) Medical School

| | |
|--------------|--|
| 2002 | Harvard Medical School, Boston, MA. Lecturer in the Neuroscience course for PhD students. |
| 1999-present | Harvard Medical School, Boston, MA. Serve as examiner for the Objective Structured Clinical Examinations of 4 th year medical students. These are a multi-stationed exams using simulated patients to assess the students' clinical ability, and the format is being instituted for use by the National Board of Medical Examiners licensing examination. |
| 1995-1997 | Georgetown University School of Medicine, Department of Pharmacology. Facilitator in Problem Based Learning for second year medical students. I ran the section on anti-convulsants, with groups of about ten students, meeting three times per week for six weeks. |
| 1995-1997 | Georgetown University School of Medicine, Clinical Clerkship in Neurology. Lecturer on the diagnosis and management of neurotrauma to third year medical students. Average of 6 students per lecture, meeting on a biweekly basis throughout the year. |
| 1994-1996 | Georgetown University School of Medicine, Neuroanatomy. Lecturer and laboratory instructor for neuroanatomy course to second year medical students. Average section of 30 students, meeting three times per week for eight weeks. |

b) Graduate Medical Education.

- 2000-present Associate Director of Resident Education for Neurosurgery, Children's Hospital and Brigham & Women's Hospital. As residency coordinator, I am the liaison for the residents in all aspects of education, scheduling, administration and conflict resolution. Since assuming this role I have extensively overhauled the program with institution of Competency Based Curriculum criteria, new mentoring programs for the residents, and regular retreats to improve upon the educational aspects of the residency training. Along with this, there have been substantial improvements in resident morale, with decreased attrition and an overall positive outlook.
- 1998-present Children's Hospital/Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Full-time academic attending with full responsibility for resident and medical student teaching. Includes approximately twenty hours per week in the operating room, and 4-8 hours per week in the clinic. Serve as mentor for medical students during one month block, 3-4 per year.
- 1997-1998 Children's Hospital, Department of Neurosurgery, Boston, MA. As Pediatric Neurosurgery Fellow I was involved in the supervision and instruction of approximately 20 medical students throughout the year, as well as a complement of residents from both the Brigham and Women's and Massachusetts General Hospitals. This involved extensive intra-operative teaching along with didactic instruction and clinical supervision. I co-supervised the ambulatory neurosurgery clinic for both the residents and students, and organized several educational conferences per week including neuro-radiology, morbidity and mortality.
- 1996-1997 Georgetown University School of Medicine, Department of Neurosurgery. As a senior resident, chief resident, and Clinical Instructor in neurosurgery, I had a supervisory role in the instruction of third and fourth year medical students and junior residents in neurosurgery, in the care and surgery of the neurological patient. Involved approximately 25 students and five residents per year, at an annual time involvement of about five hundred hours. Instruction was didactic and clinical in both the operating rooms and clinics. and weekly case review. Approximate involvement time was ten hours per week.

c) Local invited teaching conferences

- 2006 Craniosynostosis. Pediatric Grand Rounds. Lowell General Hospital, Lowell, MA
- 2006 Infant skull deformities. Pediatric Grand Rounds. Caritas St. Elizabeth's Medical Center, Boston, MA
- 2005 Diagnosis and Treatment of Infant Skull Deformities. Pediatric Grand Rounds. Children's Hospital, Boston.
- 2005 Comprehensive Surgical and Non-surgical Techniques in the Treatment of Deformational Plagiocephaly and Craniosynostosis keynote lecture as part of seminar on Comprehensive Treatment and Evaluation of Deformational Plagiocephaly, Braintree, MA
- 2005 Mild traumatic brain injury in children. Community Education Initiative Lecture Series, Boston, MA
- 2002 Pediatric Head Injury. Harvard University course "Injuries to Children", Boston, MA
- 2002 Pediatric Minor Traumatic Brain Injuries. South Shore School Partnership for Health.
- 2002 Intracranial Hemorrhage. Department of Emergency Medicine. Children's Hospital, Boston.
- 2001 Management of hydrocephalus and shunts. Department of Emergency Medicine. Children's Hospital, Boston.

- 2001 Craniofacial Abnormalities in Children. Grand Rounds. Beverly Hospital.
- 1998, 2000 Management of severe head injury in children. Surgical Grand Rounds. Children's Hospital, Boston.
- 2000 Pediatric spine injury. Harvard University course "Injuries to Children", Boston, MA.
- 2000 The changing management of severe head injury in children. Harvard University course "Injuries to Children", Boston, MA.
- 1999 Pediatric tethered cord syndrome. Grand Rounds. South Shore Hospital, Weymouth, MA.

Regional/National Contributions

- 2006 Scientific Program Committee, Congress of Neurological Surgeons Annual Meeting, Chicago, IL
- 2006 Course director and speaker for Harvard Medical School Sports related Conference on Concussion and Spine Injury, Fenway Park, Boston, MA
- 2006 Complex Pediatric Spinal Cord Anomalies, Course Moderator, American Association of Neurological Surgeons Annual Meeting, San Francisco, CA
- 2005 Lecturer on Neurotrauma, at the American Association of Operating Room Nurses Advances in Clinical Practice meeting, Boston, MA
- 2005 Course director for PC-06, Intraoperative MR Imaging, at the Congress of Neurological Surgeons Meeting, Boston, MA
- 2005 Course Director, Speaker for Harvard Medical School Sports Related Concussion and Spine Injury Conference, Gillette Stadium, Foxboro, MA.
- 2005 Featured speaker on craniosynostosis and plagiocephaly. Easter Seals Pediatric Symposium. Portland, Maine
- 2005 Pediatric Spinal Cord Tumors. Invited lecture at Congress of Neurological Surgeons Meeting, New Orleans, LA.
- 2004-2005 Scientific Program Committee, Congress of Neurological Surgeons Meeting, Boston, MA
- 2004 Chair of Craniosynostosis seminar at the Congress of Neurological Surgeons Meeting, San Francisco, California
- 2004 Moderator for Section on Pediatric Neurological Surgery at the Congress of Neurological Surgeons Meeting, San Francisco, California
- 2004 Course Director and speaker for the Sports Concussion and Spine Injury Conference, Fenway Park, Boston, MA
- 2004 Invited course faculty speaking on craniosynostosis at "Frontiers in Surgery", Bedford, MA
- 2003 Invited faculty member for the AANS Oral Boards Review Course, Cincinnati, Ohio.

- 2003 Featured speaker on head injury at “The silent danger in sports: 2003 Sports Concussion Conference”. Fleet Center, Boston, MA.
- 2002 Pediatric Severe Head Injuries. Course on Pediatric Critical Care at Congress of Neurological Surgeons, Philadelphia, PA.
- 2002 Management of Craniofacial Disorders. Congress of Neurological Surgeons, Philadelphia, PA.
- 2002 Invited course faculty at AO course on Craniofacial Reconstruction. Philadelphia, PA.
- 2002 Invited faculty member for the American Association of Neurological Surgery Oral Boards Review Course, Hartford, CT. Served as Pediatric Neurosurgical expert instructing board eligible neurosurgeons prior to their taking of the oral board exam of the American Board of Neurological Surgery.
- 2002 Management of sports-related concussion. National Team Physicians Course, American College of Sports Medicine. New Orleans.
- 2002 Catastrophic cervical spine injury. National Team Physicians Course, American College of Sports Medicine. New Orleans.
- 2001 Use of Intra-operative Magnetic Resonance Imaging for Pediatric Brain Tumors. Joint Section on Pediatric Neurosurgery of the AANS/CNS, Annual Meeting, New York.
- 2001 Pathophysiology of concussion. American College of Sports Medicine, Team Physicians Course, Providence, RI.
- 2001 Pediatric cervical spine injuries. Congress of Neurological Surgeons, San Diego, CA.
- 2001 Biomechanics of child abuse. Congress of Neurological Surgeons, San Diego, CA.
- 2000 Sports-related cervical spine injuries. American College of Sports Medicine, Team Physician Course, Providence, RI.
- 2000 Sports-related head injuries. American College of Sports Medicine, Team Physician Course, Providence, RI.
- 2000 Visiting Professor with invited lecture on Management of raised intracranial pressure after trauma. North Shore University Hospital, Pediatric Neurologic Emergencies course, New York.
- 2000 Return to play criteria after concussion. Congress of Neurological Surgeons, San Antonio, TX.
- 2000 The effect of new technologies on craniofacial surgery. Congress of Neurological Surgeons, San Antonio, TX.
- 1999 The role of anthropometry in the treatment of craniosynostosis. Congress of Neurological Surgeons, Boston, MA.
- 1999 Prominent Basilar Emissary veins in syndromic craniosynostosis. Congress of Neurological Surgeons, Boston, MA.
- 1998 The effect of surgery for diastematomyelia on neurologic and urologic function. Section on Pediatric Neurological Surgery of the American Association of Neurological Surgeons, Indianapolis, Indiana.

International Contributions

Part III: Bibliography*Original Articles*

- 1) Lustgarten J, **Proctor M**, Haroun R, Avellino A, Pindzola A, Kliot, M. Semipermeable polymer tubes provide microenvironment for in vivo analysis of dorsal root regeneration, *Journal of Biomechanical Engineering*, 1991; 113: 184-188.
- 2) Fornai F, Dybdal D, **Proctor M**, Gale K. Focal intracerebral elevation of L-lactate is anti-convulsant. *European Journal of Pharmacology*, 1994; 254.
- 3) **Proctor M**, Fornai R, Afshar KJ, Gale, K. The role of nitric oxide in the propagation of limbic seizures. *Neuroscience*, 1997; 76:4:1231-1236.
- 4) Nikas DC, **Proctor M**, Scott RM. Spontaneous thrombosis of vein of galen aneurysmal malformation. *Pediatric Neurosurgery*, 1999;31:33-39.
- 5) Robson CD, Mulliken JB, Robertson RL, **Proctor M**, Steinberger D, Barnes PD, McFarren A, Muller U, Zurakowski D. Prominent basal emissary foramina in syndromic craniosynostosis: correlation with phenotypic and molecular diagnosis. *AJNR*, 2000; 21(9): 1707-17.
- 6) **Proctor M**, Bauer SB, Scott RM. The effect of surgery for split spinal cord malformation on neurologic and urologic function. *Pediatric Neurosurgery*, 2000; 32: 13-19.
- 7) **Proctor M**, Scott RM. Long term outcome for patients with split spinal cord malformation. *Neurosurgical Focus*, 2000;10(1).
- 8) **Proctor M**, Cantu RC. Head and neck injuries in young athletes, *Clinics in Sports Medicine*, 2000; 19(4): 693-715.
- 9) Soriano SG, Cowan DB, **Proctor M**, Scott RM. Levels of soluble adhesion molecules are elevated in the cerebrospinal fluid of children with Moyamoya syndrome. *Neurosurg*, 2002 50(3): 544-549.
- 10) Rogers, GF, **Proctor M**, Mulliken JB. Unilateral fusion of the frontosphenoidal suture: a rare cause of synostotic frontal plagiocephaly. *Plastic and Reconstructive Surgery*, 2002; 110(4): 1011-21.
- 11) **Proctor, M**. Spinal Cord Injury. *Critical Care Medicine*, 2002, 30(11), 489-499.
- 12) Rahbar, R, Shah, P, Mulliken JB, Robson CD, Perz-Atayde AR, **Proctor MR**, Kenna MA, Scott RM, McGill TJ, Healy GB. The presentation and management of nasal dermoid. *Arch Otolaryngolog, Head Neck Surg*, 2003;129:464-471.
- 13) **Proctor M**, Scott RM. Letter to the Editor. Redefining the magnetic resonance imaging reference level for the cerebellar tonsil: a study of 170 adolescents with normal versus idiopathic scoliosis. *Spine* 29(1): 105. 2004.
- 14) Ohaegbulam CO, d'Hemecourt P, **Proctor M**, Lumbar epidural hematoma causing radiculopathy and associated with multiple spondyloses. *J. Neurosurg: Spine*, in revision.
- 15) Ohaegbulam CO, Woodard E, **Proctor M**, Occipitocondylar hyperplasia: an unusual craniocervical junction abnormality causing myelopathy. *J. Neurosurgery*, 2005, 104(4): 379-381.

- 16) Rogers GF, **Proctor MR**, Greene AK, Mulliken JB. Frontonasal osteotomy to facilitate removal of an intracranial nasal dermoid. *J Craniofac Surg*. 2005 Jul;16(4):731-6.
- 17) Zimmerman MA, Goumnerova LC, **Proctor M**, Scott RM, Marcus K, Pomeroy SL, Turner CD, Chi SN, Chordas C, Kieran MW. Continuous remission of newly diagnosed and relapsed central nervous system atypical teratoid/rhabdoid tumor. *J Neurooncol*. 2005 Mar;72(1):77-84.

Reviews

- 1) **Proctor M**, Martuza R. Trauma. In: Samuel, editor. *Manual of Neurology, Fifth Edition*, Little Brown and Company; 1994, p. 250-276.
- 2) **Proctor M**, Gale K. Basal Ganglia and Brain Stem Anatomy and Physiology, In: Engel and Pedley, editors. *Epilepsy: A Comprehensive Textbook*, New York: Lippincott-Raven; 1998. p. 353-368.
- 3) **Proctor M**, Scott RM Special Considerations for Children in Neurosurgery, In: Black and Kaye, editors. *Operative Neurosurgery*, London: Harcourt Brace; 2000, p.33-44.
- 4) **Proctor M**, Barrow M. Neurosurgical Aspects of Non-accidental Trauma in Children, In: Batjer and Loftus, editors. *Textbook of Neurological Surgery*, Lippincott, Williams and Wilkins; 2003, p 1065-1072.
- 5) **Proctor M**, Cantu RC. Neck, In: Frontera, Micheli, Herring, Silver editors: *Clinical Sports Medicine*, Elsevier Press, in press.
- 6) Maher, CO, Smith E, Proctor M, Scott RM: "Spinal Vascular Malformations", In: Kim DH, Betz RR, Huhn SL, Newton PO, eds., **Surgery of the Pediatric Spine**. Thieme, New York, in press

Books

Proctor M, Black P, Editors, *Minimally Invasive Neurosurgery*. Humana Press, Totowa, NJ, 2005.

Proceedings of Meetings

- 1) **Proctor, M** and Mirro, M. The Effects of Artificially Induced Congestive Right Heart Failure on Electrical Excitability of the Dog's Heart. *Research Abstracts of the Secondary Student Training Program*, 1980, University of Iowa.
- 2) **Proctor, M** and Kim, KC. Effect of Choline on the Neuromuscular Blocking Agent Succinylcholine. *Research Abstracts of the High School Science Student Institute*, 1981, Indiana University.
- 3) Wenniger J, **Proctor M**, Gale K, Jasmin L. The analgesic effect of morphine in the piriform cortex may be mediated through descending inhibitory control as evidenced by correlation of nociceptive behavior and C-fos expression in the formalin test. *Society for Neuroscience Abstracts*, 1994, Vol 20: 318.18.
- 4) **Proctor M** and Gale K. The role of the hippocampus in the propagation of limbic seizures. *Epilepsia*, 1994, Vol 35, Supp 8: 58.

- 5) **Proctor MR**, Vaurio R, Hogan C, Gale K. Hippocampal activation stops the spread of experimental limbic seizures. Proceedings of the Section on Pediatric Neurological Surgery of the American Association of Neurological Surgeons, 1995, Pasadena, California.
- 6) New KC, **Proctor MR**, Martuza RL, Gale K, Rakin, SD. Defective herpes simplex virus vectors for the study of glutamate decarboxylase expression in cells in the CNS. Society for Neuroscience Abstracts, 1995, Vol 21: 634.3.
- 7) New KC, **Proctor MR**, Martuza RL, Gale K, Rakin, SD. Defective herpes simplex virus vectors for the study of glutamate decarboxylase expression in the CNS. *Epilepsia*, 1995, Vol 36, Supp 4: 87 (F6).
- 8) **Proctor MR**, Vaurio R, Hogan C, Gale K. Excitatory amino acid activity within the hippocampus attenuates the propagation of limbic seizures. *Epilepsia*. 1995; Vol 36, Supp 4: 42 (2.31).
- 9) Eldredge E, Soriano S, **Proctor MR**, Jolesz FA, Rockoff MA. Pediatric neuroanesthesia in a magnetic resonance therapy unit. American Society of Anesthesiologists, 1999.
- 10) Robson CD, Mulliken JB, Robertson RL, **Proctor MR**, Barnes PD. Prominent Emissary veins in Crouzon syndrome. American Society of Neuroradiology, San Diego, May, 1999.
- 11) **Proctor MR**, Eldredge E, Goumnerova L, Scott RM, Black P. The role of intraoperative MRI in the treatment of pediatric brain tumors. Congress of Neurological Surgeons, San Antonio, TX, 2000
- 12) **Proctor MR**. The role of anthropometry in the assessment and treatment of craniosynostosis and deformational plagiocephaly. 23rd Annual Meeting, American Society of Pediatric Neurosurgery, Hawaii, 2000.
- 13) **Proctor MR**, Mulliken JM. The role of anthropometry in the assessment and treatment of craniosynostosis and deformational plagiocephaly. Congress of Neurological Surgeons, San Antonio, TX, 2000
- 14) **Proctor MR**, Eldredge EA, Jolesz FA, Goumnerova L, Scott RM, Black PM. Utility and safety of intraoperative magnetic resonance imaging for pediatric patients. Joint Section on Pediatric Neurological Surgery of the AANS/CNS, New York, NY, 2001