

CURRICULUM VITAE

Marc Edward Eichler, M.D.

**Staff Attending in Department of Neurosurgery
Associate Surgeon in Department of Surgery
Brigham and Women's Hospital
Instructor in Surgery
Harvard Medical School
Boston, MA 02115**

PERSONAL INFORMATION

Business Address: Brigham and Women's Hospital
Department of Neurosurgery
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Home Address: 54 Duxbury Road
Newton, MA 02459

Date of Birth: February 21, 1961

Place of Birth: Landstuhl, Phalz, West Germany

Citizenship: USA

Sex: Male

Marital Status: Single

Marc E. Eichler, M.D.

EDUCATION

High School: Woodward High School
Rockville, Maryland
Graduated 1979

College: University of Michigan
Ann Arbor, Michigan
B.S. 1979-1983

Medical School: Washington University School of Medicine
Saint Louis, Missouri
Medical Doctor 1983-1988

Internship: **General Surgery**
Barnes Hospital
Saint Louis, Missouri
July 1988-July 1989

Residencies: **Resident**
Department of Neurological Surgery
Barnes Hospital
Washington University School of Medicine
Saint Louis, Missouri
July 1989-July 1994

Chief Resident
Department of Neurological Surgery
Barnes Hospital
Washington University School of Medicine
Saint Louis, Missouri
July 1994-July 1995

Fellowship: Spine Fellow
Spine Reconstruction/Stabilization and Spinal Cord Injury
Department of Neurological Surgery
Los Angeles County
University of Southern California School of Medicine
Los Angeles, California
1993-1994

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HONORS AND AWARDS

William J. Branstrom Award 1979-1981

Outstanding Freshman/Sophomore
University of Michigan

James B. Angell Scholar 1980-1983

University of Michigan

Golden Key National Honor Society 1982

Phi Beta Kappa Alpha Chapter 1982

University of Michigan

Honor Student Neurosciences and Neurosurgery 1988

Washington University School of Medicine

Southern Neurosurgical Society Resident's Award in

Basic Science 1993

LICENSURE

Massachusetts	1999-present	#160084
North Dakota	1997-1999	# 7789
Michigan	1997-1999	# 4301071074
Missouri	1988-1996	# MDT15197

BOARD CERTIFICATION

Diplomate American Board of Medical Examiners, 1996

Diplomate American Board of Neurological Surgery 2002

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PROFESSIONAL AFFILIATIONS

Academic Appointments:

Instructor in Surgery Harvard Medical School
Staff Attending in Department of Neurosurgery
Associate Surgeon in Department of Surgery
Brigham and Women's Hospital
July, 1, 1999 – present

Research Associate
Department of Neurosurgery Barnes Hospital
Washington University School of Medicine
1995-1996

Society Memberships/Committees:

American Association of Neurological Surgeons

Congress of Neurological Surgeons

Neurosurgical Representative Trauma Review Committee
Brigham and Women's Hospital
2000-2002

Neurosurgical Representative Trauma Review Committee
Barnes Hospital Department of Neurosurgery
1995-1996

American Medical Association
1991 - present

Phi Beta Kappa
1982

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PUBLICATIONS

1. **Eichler ME**, Rich KM. Death of sensory neurons after acute withdrawal of nerve growth factor in tissue culture. *Brain Res* 482:230-246, 1989.
2. Rich KM, Disch SP, and **Eichler ME**. The influence of regeneration and nerve growth factor on the neuronal cell body reaction to injury. *J Neurocytol* 18:569-576, 1989.
3. Rich KM, Hollowell JP, Dubinsky J, and **Eichler ME**. Flunarizine protects sensory and sympathetic neurons from death after NGF withdrawal and axotomy: a possible role of intracellular calcium in determining trophic factor dependence. *J Auton Nerv Syst* 33:214-215, 1991.
4. **Eichler ME**, Dubinsky JM, and Rich KM. The relationship of intracellular calcium to dependence on nerve growth factor in dorsal root ganglion neurons in cell culture. *J Neurochem* 58:263-269, 1992.
5. Bailey SB, **Eichler ME**, Villadiego A, and Rich KM. The influence of fibronectin and laminin during Schwann cell migration and peripheral nerve regeneration through silicone chambers. *J Neurocytol* 22:176-184, 1993.
6. **Eichler ME**, Dubinsky JM, Tong J and Rich KM. The ability of diphenylpiperazines to prevent neuronal death in dorsal root ganglion neurons in vitro after nerve growth factor deprivation and in vivo after axotomy. *J Neurochem* 62:2148-2157, 1994.
7. Silbergeld DL, Vollmer DG, Tantuwaya VS, and **Eichler ME**. Endoscopic transventricular hippocampectomy. *J Epilepsy* 8:68-73, 1995.
8. Tong JX, **Eichler ME**, and Rich KM. Intracellular calcium levels influence apoptosis in mature sensory neurons after trophic factor deprivation. *Exper Neurology* 138:45-52, 1996.
9. Moran CJ, Cross DT III, Derdeyn CL, Paczynski RP, Dromerick AW, **Eichler ME**, Dacey RG Jr. Expansion of a hematoma after urokinase thrombolysis of superior sagittal sinus thrombosis. *J Vasc Inter Radiology* 1996

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CHAPTERS

1. **Eichler ME** and Vollmer DG. Head injury in the elderly. In: **Principles of Geriatric Medicine.** (Eds) Hazzard WR, Bierman EL, Blass JP, Ettinger WH Jr, Halter JB, and Andres Reubin. Third Edition. 1994. New York, McGraw. pp. 1079-1089.
2. **Eichler ME** and Vollmer DG. Cervical spine trauma. In: **Neurological Surgery.** (Ed) Youmans JR. Fourth Edition. 1996. Philadelphia, WB Saunders. pp. 1939-1968.
3. **Eichler ME** and Dacey RG. Intramedullary spinal cord tumors. In: **The Textbook of Spinal Surgery.** (Eds) Bridwell KH and Doppman JL. Second Edition. 1996. JB Lippincott. pp. 2089-2102.
4. Dacey RG and **Eichler ME.** Spinal Vascular Malformations. In: **The Textbook of Spinal Surgery.** (Eds) Bridwell KH and Doppman JL. Second Edition. 1996. JB Lippincott. pp. 2117-2129.
5. **Eichler ME.** Spinal instrumentation: Construct design strategies. In: **The Thoracic Spine** (Eds) Benzel EC and Stillerman CB. 1998. Saint Louis Quality Medical Publishing, Inc. pp. 270-279.
6. **Eichler ME,** Stillerman CB, and Roy RS. Surgical techniques: Cervical spine stabilization. In: **Contemporary Management of Spinal Cord Injury: From Impact to Rehabilitation.** (Eds) Benzel EC and Tator CH. 2000. Neurosurgical Topics - American Association of Neurological Surgeons Publications. pp. 133-172.
8. Ohaegbulam C and **Eichler ME.** Spinal cord tumors. In: **Office Practice of Neurology.** (Eds) Samuels MA and Feske SK. Second Edition. 2003. Churchill Livingstone. pp. 1107-1117.
9. Jenkins AL, Vollmer DG, and **Eichler ME.** Cervical spine trauma. In: **Youmans Neurological Surgery.** (Ed) Winn RH Fifth Edition 2003. Philadelphia, WB Saunders. pp. 4885-4914.

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ABSTRACTS/PRESENTATIONS

1. **Eichler ME** and Rich KM. Neuronal death in vitro following acute deprivation of nerve growth factor. American Association of Neurological Surgeons Annual Meeting, Toronto, Ontario; April 1988.
2. Rich KM, Hollowell JP, Dubinsky J, and **Eichler ME**. Flunarizine protects sensory and sympathetic neurons from death after NGF withdrawal and axotomy. The Autonomic Nervous System Symposium, University of Oxford, Oxford, England; September 1990.
3. **Eichler ME**, Dubinsky JM, and Rich KM. Levels of intracellular calcium may determine trophic factor dependence in developing neurons. Congress of Neurological Surgeons Annual Meeting, Orlando, Florida; October 1991.
4. Bailey SB, **Eichler ME**, Villadiego A, and Rich KM. Rat peripheral nerve regeneration across 18- mm gaps and Schwann cell migration: Influence of fibronectin. Society for Neuroscience Annual Meeting, New Orleans, Louisiana; November 1991.
5. Rich KM, **Eichler ME**, and Hollowell JP. Flunarizine improves longterm regeneration after sciatic nerve injury. Society for Neuroscience Annual Meeting, New Orleans, Louisiana; November 1991.
6. **Eichler ME**, Dubinsky JM, and Rich KM. The ability of diphenylpiperazines to prevent neuronal death in dorsal root ganglion neurons in vitro after NGF deprivation and in vivo after axotomy. Society for Neuroscience Annual Meeting, Anaheim, California; 1992.
7. **Eichler ME**, Dubinsky JM, and Rich KM. The ability of diphenylpiperazines to prevent neuronal death in dorsal root ganglion neurons in vitro after NGF deprivation and in vivo after axotomy. Southern Neurosurgical Society Annual Meeting, Williamsburg, Virginia; April 1993.
8. Tong JX, **Eichler ME**, and Rich KM. Intracellular calcium levels influence trophic factor dependence for survival in mature DRG neurons. Society for Neuroscience, Miami Beach, Florida; 1994.
9. Rich KM, **Eichler ME**, Villadiego AS, Tong JX. The ability of quercetin to prevent neuronal death in DRG neurons in vitro after NGF deprivation and in vivo after axotomy. Society for Neuroscience, Miami Beach, Florida; 1994.

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10. **Eichler ME** Vollmer DG, and Pryor JC. En bloc resection of malignancies involving the spine. Presented at the Annual Meeting of the Congress of Neurological Surgeons, Chicago, Illinois; October 1-6, 1994.
11. **Eichler ME** Blood Loss During Spinal Surgery. Presented at AANS Course SpineSurgery-Hands-On: A Comprehensive Approach for Neurosurgeons, Albuquerque, New Mexico; May 20, 1998.
12. **Eichler ME** Ventral Cervical Fixation Techniques. Presented at AANS Course Spine Surgery- Hands-On: A Comprehensive Approach for Neurosurgeons, Albuquerque, New Mexico; August 17, 1998.
13. **Eichler ME** Course Instructor/Faculty AANS PDP Course Spine Surgery Hands-On: A Comprehensive Approach for Neurosurgeons, May 16-22 and August 15-21, 1998.
14. **Eichler ME** Intracellular Calcium and the Cell Body reaction to Axonal Injury. Presented as Visiting Professor University of Texas Health Science Center, San Antonio, Texas February 22-23, 1999.
15. **Eichler ME** Course Instructor/Faculty AANS PDP Course Spine Surgery Hands-On: A Comprehensive Approach for Neurosurgeons, Albuquerque, New Mexico; May 15-21, 1999.
16. **Eichler ME** Surgical Approaches to the Craniocervical Junction. Presented at AANS PDP Course: Spine Surgery Hands-On: A Comprehensive Approach for Neurosurgeons, Albuquerque, New Mexico; May 17, 1999.
17. **Eichler ME** Course Instructor/Faculty AANS PDP Ventral Surgical Approaches to the Thoracic and Lumbar Spine, San Antonio, Texas; September 24-25, 1999.
18. **Eichler ME** Retroperitoneal Approach to the Lumbar Spine. Presented at AANS PDP Course: Ventral Surgical Approaches to the Thoracic and Lumbar Spine, San Antonio, Texas September 24, 1999.
19. **Eichler ME** Posterior Lumbar Interbody Fusion. Presented at AANS PDP Course: Ventral Surgical Approaches to the Thoracic and Lumbar Spine, San Antonio, Texas September 25, 1999.

20. **Eichler ME** Indications for Lumbosacral Fusions. Presented at Congress of Neurological Surgeons Annual Meeting Practical Course Lumbosacral Fusion : Cages, Dowels, and Pedicle Screws, Boston, Massachusetts, October 30-November 4, 1999.

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21. **Eichler ME** Ventral Surgery of the Cervical Spine. Presented at AANS Professional Development Program. Comprehensive Review Course for Young Neurosurgeons. Cleveland, Ohio; October 9-15, 1999.

22. **Eichler ME** Ventral and Lateral Thoracic and Lumbar Spine Exposures. Presented at AANS Professional Development Program. Comprehensive Review Course for Young Neurosurgeons. Cleveland, Ohio; October 9-15, 1999.

23. **Eichler ME** Cervical Biomechanics Presented at 13th Annual International Bethesda Spine Workshop USUHS, Bethesda Maryland; June 4-13, 2000.

24. **Eichler ME** Cleveland Clinic Spine Review Course – Hands-On, Course Co-Director Cleveland, Ohio; August 19-25, 2000.

25. **Eichler ME** Management of Blood Loss During Spinal Surgery. Presented at Cleveland Clinic Spine Review Course – Hands-On. Cleveland, Ohio; August 19-25, 2000.

26. **Eichler ME** Lumbar Spondylosis. Presented at Cleveland Clinic Spine Review Course – Hands-On. Cleveland, Ohio; August 19-25, 2000.

27. Tuli S, **Eichler ME**, Woodard EJ. Translaminar Facet Screw Versus Pedicle Screw Fixation: An Analytical Study on Peri-Operative Morbidity. AANS / CNS Joint Section on Disorders of the Spine and Peripheral Nerve 17th Annual Meeting. Phoenix, Arizona; February 14-17, 2001.

28. Chen P, Tuli S, **Eichler ME**, Woodard EJ. Cervical Spondylosis: Fusion Outcome With Allograft and Anterior Instrumentation for Multilevel Corpectomy. AANS / CNS Joint Section on Disorders of the Spine and Peripheral Nerve 17th Annual Meeting. Phoenix, Arizona; February 14-17, 2001.

29. **Eichler ME** Faculty for Practical Course: Thoracic and Lumbar Stabilization and Fusion. AANS 69th Annual Meeting Toronto, Ontario, Canada; April 21-26, 2001.

30. Tuli S, **Eichler ME**, Woodard EJ. Translaminar Facet Screw Versus Pedicle Screw Fixation: An Analytical Study on Peri-Operative Morbidity AANS 69th Annual Meeting Toronto, Ontario, Canada; April 21-26, 2001.

31. Chen P, Tuli S, **Eichler ME**, Woodard EJ. Fusion Outcome in Patients Treated With Allograft and Anterior Instrumentation for Multilevel Corpectomy. AANS 69th Annual Meeting. Toronto, Ontario, Canada; April 21-26, 2001.

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32. **Eichler ME** Cleveland Clinic Spine Review – Hands-On, Course Co-Director Cleveland, Ohio; May 12-18, 2001.
33. **Eichler ME** Thoracic and Lumbar Spine Stabilization – Surgical Strategies. Presented at Cleveland Clinic Spine Review – Hands-On, Cleveland, Ohio; May 12-18, 2001.
34. **Eichler ME** Translaminar Facet Screw Fixation: Indications and Techniques. Presented at Cleveland Clinic Spine Review – Hands-On, Cleveland, Ohio; May 12-18, 2001.
35. **Eichler ME** Management of Blood Loss During Spinal Surgery. Presented at Cleveland Clinic Spine Review Course – Hands-On. Cleveland, Ohio; May 12-18, 2001.
36. **Eichler ME** Faculty for USUHS 13th Annual International Bethesda Spine Workshop Bethesda, Maryland; June 3-12, 2001.
37. **Eichler ME** Far Lateral Approach to the Upper Cervical Spine. Presented at USUHS 13th Annual International Bethesda Spine Workshop Bethesda, Maryland; June 3-12, 2001.
38. **Eichler ME** Subaxial Cervical Spine: Posterior Approaches. Presented at USUHS 13th Annual International Bethesda Spine Workshop Bethesda, Maryland; June 3-12, 2001.
39. **Eichler ME** Faculty for Practical Course: Lumbosacral Fusion: Cages, Dowels, and Pedicle Screws. CNS 51st Annual Meeting San Diego, California September 29, 2001.
40. **Eichler ME** Post Traumatic Syringomyelia. Presented at Department of Veterans Affairs 10th Annual Symposium on Spinal Cord Injury Boston, Massachusetts; October 19, 2001.
41. **Eichler ME** Faculty for Practical Clinic: Thoracic and Lumbar Stabilization and Fusion: Indications and Complications. AANS 70th Annual Meeting Chicago, Illinois April 7, 2002.
42. **Eichler ME** Panelist for Breakfast Seminar: Lumbar Spine Fusion : Indications, Patient Selection, and Current Techniques. AANS 70th Annual Meeting Chicago, Illinois April 8, 2002.
43. **Eichler ME** Co-Director Cleveland Clinic Spine Review Course – Hands-On. Cleveland, Ohio; May 4-10, 2002.

44. **Eichler ME** Management of Blood Loss During Spinal Surgery. Presented at Cleveland Clinic Spine Review Course – Hands-On. Cleveland, Ohio; May 4-10, 2002.

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45. **Eichler ME** Kyphoplasty, Vertebroplasty, and IDET Therapy and Indications. Presented at Cleveland Clinic Spine Review Course – Hands-On. Cleveland, Ohio; May 4-10, 2002.

46. **Eichler ME** Faculty for USUHS 14th Annual International Bethesda Spine Workshop Bethesda, Maryland; May 30 – June 5, 2002.

47. **Eichler ME** Posterior Approaches to the Cervical Spine: Lateral Mass Constructs. Presented at USUHS 14th Annual International Bethesda Spine Workshop Bethesda, Maryland; May 30, 2002.

48. **Eichler ME** Surgical Management of Discogenic Low Back Pain: What Procedure for which Patient. Presented at the 19th Annual AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Tampa, Florida; March 8, 2003.

49. **Eichler ME** Faculty for Practical Clinic: Thoracic and Lumbar Stabilization and Fusion: Indications and Complications. AANS 71st Annual Meeting San Diego, California; April 27, 2003.

50. **Eichler ME** Course Director Cleveland Clinic Spine Review Course – Hands-On Cleveland, Ohio; August 14 – 20, 2003.

51. **Eichler ME** Low Back Pain: Selection of Patients for Surgery. Presented at Cleveland Clinic Spine Review Course – Hands-On Cleveland, Ohio; August 14, 2003.

52. **Eichler ME** Ventral and Posterolateral Exposures of the Thoracic and Lumbar Spine. Presented at Cleveland Clinic Spine Review Course – Hands-On Cleveland, Ohio; August 17, 2003.

53. **Eichler ME** Ventral and Dorsal Thoracic and Lumbar Spine Fixation Techniques. Presented at Cleveland Clinic Spine Review Course – Hands-On Cleveland, Ohio; August 18, 2003.

54. **Eichler ME** Management of Blood Loss During Spinal Surgery. Presented at Cleveland Clinic Spine Review Course – Hands-On. Cleveland, Ohio; May 4-10, 2002.

55. **Eichler ME** Faculty for USUHS 15th Annual International Bethesda Spine Workshop Bethesda, Maryland; June 1 – June 3, 2003.

56. **Eichler ME** Posterior Approaches to the Cervical Spine: Lateral Mass Constructs. Presented at USUHS 15th Annual International Bethesda Spine Workshop Bethesda, Maryland; June 2, 2003.

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57. **Eichler ME** Traumatic Cervical Spine Instability: Diagnosis, Epidemiology, and Treatment. Presented at 5th Annual Brigham and Women's Hospital Neuroscience Conference. Boston, Massachusetts; June 12, 2003.

58. **Eichler ME** Patient Selection for Lumbosacral Fixation in Degenerative Disc Disease: To Fuse or not to Fuse? Presented at Mosby's 15th Annual Medical Case Management Convention. Tampa, Florida; September 20, 2003.