

## CURRICULUM VITAE

**Name:** Eben Alexander, III, M.D., F.A.C.S.

**Address:** Charlottesville, Virginia, USA | info@ebenalexander.com

**Date of Birth:** December, 1953

**Place of Birth:** Charlotte, North Carolina

### **Education:**

1972 Phillips Exeter Academy, Exeter, NH

1975 A.B. University of North Carolina at Chapel Hill

1980 M.D. Duke University School of Medicine, Durham, NC

### **Postdoctoral Training**

#### **Internship and Residencies:**

1980-1981 Intern in General Surgery, Duke University Medical Center, Durham, NC

1981-1983 Resident in Neurological Surgery, Duke University Medical Center, Durham, NC

1985 Acting Resident in Neurology, Massachusetts General Hospital, Boston, MA

1985-1987 Resident in Neurological Surgery, Duke University Medical Center, Durham, NC

1987 Senior Registrar and Cerebrovascular Fellow, Neurosurgical Service, Newcastle General Hospital, Newcastle-Upon-Tyne, England, U.K.

1988-1990 Instructor in Surgery, Brigham & Women's Hospital, Harvard Medical School, Boston, MA

#### **Research Fellowships:**

1983-1985 Research Fellow in Neurosurgery, Massachusetts General Hospital, Harvard Medical School, Boston, MA

1987 Research Fellow in Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

**Licensure and Certification:**

- 1980 Residents Training License, North Carolina
- 1987 30888 North Carolina [Inactive December 2013]
- 1987 58762 Massachusetts License [Inactive Dec 2013]
- 2004 12520 New Hampshire License [inactive]
- 2005 0101239440 Virginia License [Renewed December 2014]
- 1991 91066 Diplomate, American Board of Neurological Surgery, November, 1991 [Maintenance of Certification Program 29301, Recertification due 12/31/2019]
- 1996 Inducted as a Fellow, American College of Surgeons (F.A.C.S.)

**Academic Appointments:**

1978-1979 Research Assistant, Neuroendocrinology, Duke University Medical Center, Durham, NC

1988-1990 Instructor in Surgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

1990-1994 Assistant Professor in Surgery (Neurosurgery), Harvard Medical School, Boston, MA

1990-2001 Assistant Professor in Radiation Therapy, Joint Center for Radiation Therapy, Harvard Medical School, Boston, MA

1994-2001 Associate Professor in Surgery (Neurosurgery), Harvard Medical School, Boston, MA

2001-2003 Associate Professor in Surgery (Neurosurgery), UMass Medical School, Worcester, MA

2004-2005 Consultant, Gerson Lehman, New York, NY

2008-2010 Clinical Director of the Brain Program, Focused Ultrasound Surgery Foundation, Charlottesville, VA

2008-2011 Assistant Professor of Research in Neurological Surgery, University of Virginia Medical School, Charlottesville, VA

2012 Research Director, The Monroe Institute, Faber, VA

**Hospital Appointments:**

1988-2003 Associate Surgeon, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

1988-2003 Associate Surgeon, The Children's Hospital, Harvard Medical School, Boston, MA

1988-2003 Associate Surgeon, Dana Farber Cancer Institute, Harvard Medical School, Boston, MA

1994-2001 Director of Stereotactic and Functional Neurosurgery, Brigham & Women's Hospital, Boston, MA

1998-2003 Clinical Associate in Neurosurgery, Massachusetts General Hospital Boston, MA

2001-2003 Active Staff, Department of Surgery, Division of Neurosurgery, University of Massachusetts Medical Center, Worcester, MA

2004-2005 Sabbatical

2004-2005 Corporate Consulting: Gerson Lehrman Group, New York, NY

2006-2007 Active Staff, Department of Surgery, Division of Neurosurgery, Lynchburg General Hospital-CentraHealth, Lynchburg, VA

**Other Professional Positions and Major Visiting Appointments:**

1978 Research Assistant in Neurosurgery, University of Minnesota School of Medicine

1980 Research Assistant in Pathology, Bowman Gray School of Medicine, Wake Forest University

1989 Visiting Lecturer and Panelist, Department of Neurosurgery, University of Virginia School of Medicine International Symposium on Stereotactic Radiosurgery

1989 Invited Lecturer, Neurology/Neurosurgery Grand Rounds, Harvard-Longwood Medical Area.

1989 Invited Faculty, Stereotactic Radiosurgery, Radionics Course in Stereotactic Techniques, Congress of Neurological Surgeons Meeting, Atlanta, GA

1989 Invited Lecturer, Nursing Grand Rounds, Brigham and Women's Hospital

1989 Invited Faculty, Luncheon Discussion Group on Stereotactic Radiosurgery, Congress of Neurological Surgeons Meeting, Atlanta, GA

1990 Co-Director, Panelist, Lecturer, Moderator, Harvard Medical School Continuing Education Course, Radiosurgery Update.

1990 Invited Lecturer and Consultant, Varian Corporation, Palo Alto, CA

1990 Invited Lecturer and panelist, Massachusetts General Hospital, Harvard Medical School, "Neurosurgery Update", post-graduate course

1990 Invited Lecturer, 14th annual New York Neurosurgery Symposium

1990 Invited Lecturer, Skull base tumor Workshop, Hannover, Germany

1990 Invited Lecturer, Framingham Union Hospital Medical Grand Rounds

1991 Invited Lecturer, Neurology/Neurosurgery Grand Rounds, Harvard-Longwood

Medical Area.

- 1991 Invited Consultant, General Electric Medical Imaging Systems, Milwaukee, WI
- 1991 Invited Lecturer, First International Symposium on MR-Guided Laser Interventions, Harvard Medical School
- 1991 Invited Lecturer, Providence Medical Center, Portland, OR
- 1991 International Organizing Committee, Invited Lecturer, Moderator, International Stereotactic Radiosurgery Symposium, University of Pittsburgh School of Medicine
- 1991 Invited Lecturer, Panelist, 9th European Congress on Neurosurgery, Moscow, USSR
- 1991 Invited Lecturer, German-Austrian Stereotactic Workshop, Finkenberg, Austria
- 1991 Invited Lecturer, Medical Grand Rounds, St. Anne's Hospital, New Bedford, MA
- 1991 Invited Lecturer, General Scientific Session, Congress of Neurological Surgeons, Orlando, FL
- 1991 Invited Lecturer, Boston Society of Neurology and Psychiatry, Boston, MA
- 1992 Invited Lecturer, Methodist Hospital Neurosurgical Grand Rounds, Indianapolis, IN
- 1992 Invited Lecturer, Pennsylvania State Neurosurgical Society, Philadelphia, PA
- 1992 Invited Lecturer, Practical Course, American Association of Neurological Surgeons, San Francisco, CA
- 1992 Invited Lecturer, Breakfast Seminar, American Association of Neurological Surgeons, San Francisco, CA
- 1992 Invited Consultant, General Electric Medical Imaging Systems, Milwaukee, WI
- 1992 Invited Lecturer, Neurology/Neurosurgery Grand Rounds, University of Massachusetts, Worcester, MA
- 1992 Invited Lecturer, Workshop on Stereotactic Techniques, European Society of Stereotactic and Functional Neurosurgery, Stockholm, Sweden
- 1992 Invited Lecturer, Symposium on Neuro-Radio-Surgery, Vienna, Austria
- 1992 Invited Lecturer and Panelist, Joint Section on Tumors Session, Congress of Neurological Surgeons, Washington, DC
- 1992 Invited Lecturer, Practical Course on Radiosurgery, Congress of Neurological Surgeons, Washington, DC
- 1992 Invited Lecturer and Panelist, Radiosurgery Course, American Society of Therapeutic Radiology and Oncology, San Diego, CA
- 1992 Invited Lecturer, Western Medical Center, Santa Ana, CA
- 1992 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, MA
- 1993 Invited Lecturer, Practical Clinic, American Association of Neurological Surgeons Annual Meeting, Boston, MA
- 1993 Invited Lecturer, Breakfast Seminars, American Association of Neurological Surgeons Annual Meeting, Boston, MA
- 1993 Invited Lecturer, Royal Australasian College of Surgeons, Adelaide, Australia
- 1993 Invited Lecturer, Stereotactic Radiosurgery/Brachytherapy Workshop, Adelaide, Australia
- 1993 Invited Lecturer, Auckland Hospital Neurosurgery, Auckland, New Zealand
- 1993 Invited Lecturer, International Stereotactic Radiosurgery Society, 1st Congress Meeting, Stockholm, Sweden

1993 Invited Speaker, Santorini Radiosurgery Workshop, Santorini, Greece  
 1993 Invited Consultant, General Electric Medical Imaging Systems, Milwaukee, WI  
 1993 Invited Lecturer, UCLA Stereotactic Neurosurgery/Radiosurgery Course, Los Angeles, CA  
 1993 Invited Lecturer, Practical Course, Congress of Neurological Surgeons, Vancouver, British Columbia, Canada  
 1993 Invited Lecturer, Luncheon Discussion Group, Congress of Neurological Surgeons, Vancouver, British Columbia, Canada  
 1993 Panelist and Moderator, XIth Meeting of the World Society for Stereotactic and Functional Neurosurgery, Ixtapa, Mexico  
 1993 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, MA  
 1993 Invited Lecturer, Intensive Review in Neurology, Harvard Medical School, Department of Continuing Education, Boston, MA  
 1993 Invited Lecturer, Grand Rounds, Neurology and Neurosurgery, Duke University Medical Center, Durham, NC  
 1994 Fischer-Leibinger Visiting Professor in Stereotactic Neurosurgery, University of Arizona, Tucson, AZ  
 1994 Invited Lecturer, Asia-Pacific Minimally Invasive Neurosurgery Conference, Singapore General Hospital, Singapore  
 1994 Visiting Professor, Ministry of Health, Government of Singapore, Tan Tock Seng Hospital, Singapore  
 1994 Visiting Professor, Pramongkutklo Medical School, Bangkok, Thailand  
 1994 Invited Lecturer, Chulalongkorn University, Bangkok, Thailand  
 1994 Invited Lecturer, The Chinese University of Hong Kong, Prince of Wales Hospital, Shatin, N.T., Hong Kong  
 1994 Invited Lecturer, Beijing, China  
 1994 Invited Lecturer, Zhong Shan Hospital, Shanghai, China  
 1994 Invited Lecturer, Guangzhou, China  
 1994 Invited Lecturer, Australian Stereotactic Workshop, Saint Vincent's Hospital, Sydney, Australia  
 1994 Director and Speaker, Practical Course, American Association of Neurological Surgeons, San Diego, CA  
 1994 Invited Speaker, Breakfast Seminars, American Association of Neurological Surgeons, San Diego, CA  
 1994 Invited Speaker, Harvard Longwood Oncology Group Spring Symposium, Boston, MA  
 1994 Invited Speaker, Interactive Neurology, Massachusetts General Hospital, Harvard Medical School Continuing Education, Boston, MA (6/23/94)  
 1994 Invited Lecturer, UCLA Course on Minimally Invasive Therapy of the Brain, Los Angeles, CA (8/25-27/94)  
 1994 Invited Lecturer and Panelist, First Brazilian Workshop of Stereotactic Radiotherapy and Radiosurgery, San Paulo, Brazil (9/1-3/94)  
 1994 Invited Lecturer and Panelist, XX Congresso Brasileiro de Neurocirurgia, Belo Horizonte, Brazil (9/4-8/94)

1994 Invited Speaker, Grand Rounds, The Brockton Hospital Symposium, Brockton, MA (9/16/94)

1994 Invited Speaker, The Preuss Foundation Symposium on Stereotactic Radiation Treatments for Brain Tumors, Boston, MA (9/28-30/94)

1994 Invited Lecturer, Breakfast Seminar, Congress of Neurological Surgeons, Chicago, IL (10/1-6)

1994 Invited Lecturer, Interventional MRI Symposium, Society for Magnetic Resonance, Boston, MA (10/8-9)

1994 Invited Lecturer, Stereotactic Neurosurgery - Hands On, American Association of Neurological Surgeons, New Orleans, LA (10/28-29)

1994 Invited Lecturer, Radiosurgery for Brain Tumors, Loyola University Medical Center, Maywood, IL (11/4-5)

1994 Invited Lecturer, Intensive Review in Neurology, Harvard Medical School, Department of Continuing Education, Boston, MA

1995 Invited Lecturer, Medical Grand Rounds, Brigham & Women's Hospital

1995 Invited Lecturer, Practical Course, American Association of Neurological Surgeons, Orlando, FL (4/22)

1995 Invited Lecturer, Tumor Section Symposium, American Association of Neurological Surgeons, Orlando, FL (4/26)

1995 Invited Speaker, Breakfast Seminars, American Association of Neurological Surgeons, Orlando, FL (4/22-27)

1995 Invited Lecturer and Panelist, 2nd Congress of the Spanish Radiosurgery Society, Madrid, Spain (4/28)

1995 Invited Special Lecturer, Panelist, 10th European Congress on Neurosurgery, Berlin, Germany (5/9).

1995 Invited Lecturer and Panelist, Virtual Reality in Medicine and Developer's Expo, Boston, MA

1995 Invited Lecturer, X-knife Consortium Meeting, Boston (6/13/95)

1995 Program Chairman, Lecturer, Moderator, International Stereotactic Radiosurgery Society 2nd Congress Meeting, Boston, MA 6/14-17/95)

1995 Invited Lecturer, Joint International Congress on Minimally Invasive Techniques in Neurosurgery and Otolaryngology, Pittsburgh, PA (6/19)

1995 Invited Panelist, Practical Course, Congress of Neurological Surgeons, San Francisco, CA (10/15)

1995 Invited Lecturer, Luncheon Discussion Groups, Congress of Neurological Surgeons, San Francisco, CA (10/16,18)

1995 Invited Speaker, General Electric Intraoperative MR Symposium, Congress of Neurological Surgeons, San Francisco, CA (10/18)

1995 Invited Lecturer, General Scientific Plenary Session, Congress of Neurological Surgeons, San Francisco, CA (10/19)

1995 Invited Panelist and Consultant, Center for Health Care, Lawrence Livermore National Laboratories, San Francisco, CA (10/20)

1995 Invited Professor, Overlook Hospital, Summit, NJ (10/27)

1995 Invited Lecturer, New Jersey State Neurosurgical Society, New Brunswick, NJ (10/27)

1995 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, MA (11/14-15)

1995 Invited Lecturer, Stereotactic Neurosurgery - Hands On, American Association of Neurological Surgeons, New Orleans, LA (11/17-18)

1995 Invited Lecturer, XKnife Consortium, Orlando, FL (12/5)

1995 Invited Lecturer, LINAC Radiosurgery, 1995, University of Florida, Orlando, FL (12/6-10)

1996 Visiting Professor, Chicago Institute of Neurosurgery and Neuroresearch, Chicago, IL (12/22)

1996 Invited Lecturer and Panelist, 2nd International Skull Base Congress, VII Annual Meeting North American Skull Base Society, San Diego, CA, (6/29-7/4)

1996 Invited Lecturer and Panelist, Conference on Stereotactic Target Localization Techniques, Boston, MA, (7/20-7/21)

1996 Invited Lecturer, LINAC Stereotactic Radiosurgery/Radiotherapy Symposium, Samsung Medical Center, Seoul, Korea (9/7)

1996 Invited Lecturer, Stereotactic Radiosurgery Workshop, Tokyo University, Tokyo, Japan (9/8)

1996 Invited Lecturer, Stereotactic Radiosurgery and Radiotherapy Workshop, Queen Elizabeth Hospital, Hong Kong (9/10)

1996 Invited Lecturer, Symposium on Stereotactic Radiosurgery and Computer-Assisted Neurosurgery, Apollo Hospital, New Delhi, India (9/12)

1996 Special Guest Lecturer, Oregon Neurosurgical Society, Salishan Lodge, OR (10/18)

1996 Special Guest Lecturer, Oregon Neurosciences: Cost Effectiveness 1996, Salishan Lodge, OR (10/18)

1996 Visiting Professor, New Jersey Medical School, Newark NJ (10/22-23)

1996 Neurosurgery Grand Rounds, Hackensack Medical Center, Hackensack, NJ (10/23)

1996 Invited Lecturer, UCLA - XKnife User Group, Los Angeles, CA (10/26)

1996 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, M (11/26)

1996 Anesthesia Grand Rounds, Brigham & Women's Hospital, Boston, MA (11/27)

1997 Pain Service Grand Rounds, Brigham & Women's Hospital, Boston, MA (2/24)

1997 Invited Lecturer, MRI Basic to Advanced, General Electric Meeting, Breckenridge, CO (3/16)

1997 Visiting Professor, Maine Neurosurgical Society Meeting, Sugarloaf, ME (4/4-6)

1997 Invited Lecturer, Practical Course, American Association of Neurological Surgeons, Denver, CO (4/14)

1997 Invited Lecturer, General Electric Intraoperative MR Symposium, American Association of Neurological Surgeons, Denver, CO (4/16)

1997 Invited Speaker, Breakfast Seminars, American Association of Neurological Surgeons, Denver, CO (4/15,18)

1997 Invited Lecturer, Anesthesia/Critical Care Grand Rounds, Beth Israel Hospital, Boston, MA (5/21)

1997 Invited Lecturer and Moderator, International Stereotactic Radiosurgery Society 2nd Congress Meeting, Madrid, Spain (6/25-28/97)

1997 Speaker, Panelist and Moderator, XIIth Meeting of the World Society of Stereotactic and Functional Neurosurgery, Lyon, France (7/1-4/97)

1997 Invited Speaker and Moderator, 11th International Congress of Neurological Surgery, Amsterdam, The Netherlands (7/6-11/97)

1997 Visiting Professor, Tulsa Neurosciences Society, Tulsa, OK (9/11-12)

1997 Invited Panelist, Practical Course, Congress of Neurological Surgeons, New Orleans, LA (9/27-10/1)

1997 Invited Lecturer, Luncheon Discussion Groups, Congress of Neurological Surgeons, New Orleans, LA (9/27-10/1)

1997 Invited Speaker, General Electric Intraoperative MR Symposium, Congress of Neurological Surgeons, New Orleans, LA (9/27-10/1)

1997 Invited Lecturer, General Scientific Plenary Session, Congress of Neurological Surgeons, New Orleans, LA (9/27-10/1)

1997 Invited Lecturer, Brain Tumor Society, Boston, MA (11/1)

1997 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, MA (11/25)

1998 Invited Speaker and Moderator, XKnife Radiosurgery Society Meeting, Philadelphia, PA (4/25)

1998 Invited Speaker, "Meet the Professor Session", American Society of Clinical Oncology Annual Meeting, Los Angeles, CA (5/16)

1998 Invited Speaker, General Electric Intraoperative MR Symposium, UHHS: Uniformed Services University of the Health Sciences, Washington, DC (6/3)

1998 Invited Lecturer, Pain Management Seminar, Harvard Medical School, Department of Continuing Education, Boston, MA (6/13)

1998 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, MA (9/28)

1999 Invited Lecturer, "Entering the Mind Zone: A Comprehensive Neuroscience Program", Brigham & Women's Hospital Nurse Education, Boston, MA (1/13)

1999 Invited Lecturer, West Virginia Medical Society, Charleston, WV (1/22)

1999 Invited Speaker, AANS Joint Section on Cerebrovascular Surgery, Nashville, TN (2/2)

1999 Invited Speaker and Moderator, XKnife Radiosurgery Society Meeting, Sydney, Australia (2/23)

1999 Invited Lecturer, Panelist and Moderator, International Stereotactic Radiosurgery Society 3rd Congress Meeting, Sydney, Australia (2/24-2/27)

1999 Invited Lecturer, Panelist and Moderator, 50th Anniversary of Neurosurgery in Egypt, Cairo, Egypt (3/9-3/12)

1999 Invited Lecturer, Panelist and Moderator, International Stereotactic Radiosurgery Society 3rd Congress Meeting, Sydney, Australia (2/24-2/27)

1999 Invited Lecturer, Panelist and Moderator, Japanese Society of Skull Base Surgery / Conference on Neurosurgical Techniques and Tools, Osaka, Japan (3/22-25)

1999 Invited Lecturer, Practical Course, American Association of Neurological Surgeons, New Orleans, LA (4/24)

1999 Invited Lecturer, General Electric Intraoperative MR Symposium, American Association of Neurological Surgeons, New Orleans, LA (4/26)



1999 Invited Speaker, Breakfast Seminars, American Association of Neurological Surgeons, New Orleans, LA (4/27)

1999 Invited Lecturer and Moderator, New England Neurosurgical Society, Dedham, MA (6/11)

1999 Invited Lecturer, Panelist and Moderator, American Society of Stereotactic and Functional Neurosurgery, Snowbird, UT (7/7-11)

1999 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, MA (9/14)

1999 Visiting Professor, Stanford University Medical Center, Stanford, CA (10/1)

1999 Invited Lecturer, Neuroradiology, Head & Neck Radiology and Clinical Functional MRI and Spectroscopy, Harvard Medical School, Department of Continuing Education, Boston, MA (10/4)

1999 Invited Panelist, Practical Course, Congress of Neurological Surgeons, Boston, MA (10/30-11/4)

1999 Invited Lecturer, Luncheon Discussion Groups, Congress of Neurological Surgeons, Boston, MA (10/30-11/4)

1999 Invited Examiner, AANS Professional Development Course: Mock Oral Board Examination, Houston, TX (11/15-16)

2000 Invited Speaker, North American Skull Base Society, Phoenix, AZ (3/17-19)

2000 Invited Speaker, Practical Course, American Association of Neurological Surgeons, San Francisco, CA (4/9)

2000 Invited Speaker, Breakfast Seminars, American Association of Neurological Surgeons, San Francisco, CA (4/11)

2000 Invited Speaker, Society of University Neurosurgeons, Boston, MA (6/14-17)

2000 Invited Panelist, Practical Course, Congress of Neurological Surgeons, San Antonio, TX (9/23-28)

2000 Invited Lecturer, Luncheon Discussion Groups, Congress of Neurological Surgeons, San Antonio, TX (9/23-28)

2000 Invited Lecturer, Tumors of the Central Nervous System, Harvard Medical School, Department of Continuing Education, Boston, MA (12/4)

2001 Invited Lecturer and Panelist, International Stereotactic Radiosurgery Society 4th Congress Meeting, Las Vegas, NV (6/10-13)

2004 Medical Grand Rounds, Melrose-Wakefield Hospital, Melrose, MA (10/20)

2010 Keynote Address, Lynchburg Academy of Medicine, Lynchburg, VA (11/8)

2010 Consciousness Meeting Presentation, Division of Perceptual Studies (DOPS), University of Virginia, Charlottesville, VA (11/16)

2011 Keynote Address, International Association of Near-Death Studies, Durham, NC (9/4)

2012 Presentation, International Association of Near-Death Studies, Phoenix, AZ (8/31)

2013 Presentation & Discussion, St John the Divine Church, New York, NY (1/8)

2013 Price Lecture Series Keynote, Trinity Church, Boston, MA (3/17)

2013 Presentation, School of Nursing, University of Virginia, Charlottesville, VA (2/27)

2013 Keynote Address, Marseille Near-Death Experience Conference, Marseille, France (3/10)

2013 Graduation Address [with His Holiness the 14<sup>th</sup> Dalai Lama], Maitripa College, Portland, OR (5/10)

2013 Presentation, Faith and Science Senior Seminar, Lynchburg College,  
 Lynchburg, VA (4/29)  
 2013 Keynote Address, Sophia University, Palo Alto, CA (6/19)  
 2013 Keynote Address, Third Annual Afterlife Awareness Conference,  
 St Louis, MO (6/22)  
 2013 Keynote Address, Institute of Noetic Sciences (IONS), Indian Wells, CA (7/20)  
 2013 Keynote Address & Meditation Presentation (with Karen Newell), Omega Institute,  
 Rhinebeck, NY (7/27)  
 2013 Presentation, Aspen Brain Festival, Aspen, CO (8/10)  
 2013 Keynote Address, International Association of Near-Death Studies,  
 Washington, DC (8/29)  
 2013 Grand Rounds, Tulane Medical Center, New Orleans, LA (9/20)  
 2013 Keynote Speaker, Texas Surgical Society Annual Meeting, Houston, TX (9/21)  
 2013 Annual Keynote, Benedictine Health System, Duluth, MN (9/26)  
 2013 Keynote Address, American College of Surgeons Foundation Annual Meeting,  
 Washington, DC (10/7)  
 2013 Fundraiser Keynote, Roanoke College, Roanoke, VA (10/25)  
 2013 Keynote Address, Overlook Medical Center, Summit, NJ (11/6)  
 2013 Keynote Address, Academi of Life, New York, NY (11/7)  
 2013 Keynote Address, Clinton Presidential Library, Little Rock, AK (11/13)  
 2013 Keynote Address, The Jefferson Society, University of Virginia,  
 Charlottesville, VA (11/15)  
 2013 Keynote Address, Open Center – New York Ethical Center,  
 New York, NY (11/23)  
 2013 Keynote Address, University of South Florida, Tampa, FL (12/5)  
 2014 Frederick G. Kergin Lecturer, University of Toronto Department of Surgery,  
 Toronto, ON, Canada (2/7)  
 2014 Keynote Address, Congressa Consciencia, Puebla, Mexico (2/22)  
 2014 Joseph Flynn Annual Conference Keynote, Mercy Hospital, St Louis, MO (3/5)  
 2014 Keynote Address, Sivananda Yoga Retreat, Paradise Island, Bahamas (3/11)  
 2014 Keynote Address, Eisenhower Medical Center, Rancho Mirage, CA (4/9)  
 2014 Keynote Address, Dr. Thomas P. Krueger Neuroscience Symposium,  
 Evansville, IN (4/22)  
 2014 Annual Keynote Address, The Wescott Society, Hunterdon Medical Center  
 Foundation, Bedminster, NJ (5/16)  
 2014 Keynote Address, Robert Haden Institute, Hendersonville, NC (5/28)  
 2014 Keynote Address & Meditation Presentation (with Karen Newell), Assoc  
 Comprehensive Energy Psychology (ACEP), Phoenix, AZ (5/29)  
 2014 Keynote Address, Fourth Annual Afterlife Awareness Conference,  
 St Louis, MO (6/6)  
 2014 Keynote Address, International Remote Viewers Association,  
 Las Vegas, NV (6/28)  
 2014 Keynote Address, Theosophical Society, Wheaton, IL (7/19)  
 2014 Keynote Address, Greenwoods Counseling Center, Washington, CT (8/3)  
 2014 Keynote Address, The Chautauqua Institute, Chautauqua, NY (8/20)  
 2014 Keynote Address, Coomeva Consciousness Conference, Cali, Colombia (9/6)

2014 Annual Keynote, St Sebastian's School, Needham, MA (9/8)  
 2014 Workshop, Omega Institute, Rhinebeck, NY (10/5)  
 2014 Workshop, Open Center, New York, NY (10/7)  
 2014 Keynote Address, Mount Holyoke College, South Hadley, MA (10/9)  
 2014 Keynote Address, North Central College, Naperville, IL (10/14)  
 2014 Keynote Address, Highland Park Methodist Church, Dallas, TX (10/16)  
 2014 Keynote Address, Northern Iowa Community College, Mason City, IA (10/22)  
 2014 Keynote Address, Memorial Health Care Neuroscience Institute,  
 Hollywood, FL (10/24)  
 2014 Keynote Address, St. Luke's Medical Center, Kansas City, MO (11/5)  
 2014 Keynote Address, Edgar Cayce Association for Research and Enlightenment –  
 "Life Everlasting," Virginia Beach, VA (11/8)  
 2014 Keynote Address, Stella Maris, Timonium, MD (11/11)  
 2014 Keynote Address, Annual Fundraising Dinner, The Open Center,  
 New York, NY (12/4)  
 2015 Workshop, Omega Blue Light Resort, Nosara, Costa Rica (1/18-23)  
 2015 Workshop, Mile Hi Church, Denver, CO (1/30-31)  
 2015 Keynote Address, The Rhine Center, Durham, NC (2/28)  
 2015 Senior Class Lecture, University of Virginia School of Nursing,  
 Charlottesville, VA (3/4)  
 2015 Keynote Address, Montgomery Woman's Club Town Hall Lectures,  
 Cincinnati, OH (3/11-12)  
 2015 Keynote Address, Living at Peak Consciousness, Vail Symposium,  
 Vail, CO (3/16-17)  
 2015 Dean's Forum Lecturer, Virginia Theological Seminary, Alexandria, VA (3/30)  
 2015 Keynote Address, Cone Health Medical, Greensboro, NC (4/9)  
 2015 Workshop, Open Center "The Art of Dying," New York, NY (4/25-26)  
 2015 Workshop, Sivananda Yoga Retreat, Paradise Island, Bahamas (5/1-2)  
 2015 Closing Keynote, Bogota Book Fair, Bogota, Colombia (5/3)  
 2015 Virginia Episcopal School Presentation, Lynchburg, VA (5/6)  
 2015 Keynote Address, Edward Via College of Osteopathic Medicine Grand Rounds,  
 Blacksburg, VA (5/12)  
 2015 Sound Meditation Workshop, Theosophical Society, Wheaton, IL (5/16)  
 2015 Sound Meditation Workshop, Sun Valley Wellness Festival,  
 Sun Valley, ID (5/23-25)  
 2015 Bon Secours Hospice Grand Presentation, Richmond, VA (6/27)  
 2015 Keynote Address, Aspen BrainLab Symposium, Aspen, CO (7/25)  
 2015 Workshop, Aspen Center for Living Peace, Aspen, CO (7/26)  
 2015 Workshop, Synchronicity, Omega Institute, Rhinebeck, NY (8/21-23)  
 2015 Keynote Address, International Association of Near-Death Studies,  
 San Antonio, TX (9/4)  
 2015 Keynote, Oklahoma City Town Hall Lecture Series, Oklahoma City, OK (9/17)  
 2015 Keynote, We Do Not Die Conference, Findhorn Foundation, Scotland (9/27-30)  
 2015 Keynote, Town Hall South Lecture Series, Pittsburgh, PA (10/6)  
 2015 Workshop, Theurgy Divine Transformation Conference, Nashville, TN (10/17-18)  
 2015 Healthy Happy Hour – St. Luke's Medical Center, Kansas City, MO (11/9)

2016 Panel, Near-Death Experience, Vail Symposium, Vail, CO (3/14-15)  
 2016 Keynote Address, Death & Dying Nurses Conference, Iowa Western,  
 Council Bluffs, IA (4/28)  
 2016 Keynote Address, HONOR Health Coping With Death CME Conference,  
 Laguna Beach, CA (6/4)  
 2016 Keynote Address, Aging Well in Mind, Body, Spirit Conference, Lynchburg  
 College, Lynchburg, VA (6/8)  
 2016 Workshop, Theosophical Society, Wheaton, IL (6/11)  
 2016 Workshop, Alternatives Series at St James Church Piccadilly, London,  
 England, UK (6/17)  
 2016 Keynote Address, Club of Budapest Infinite Consciousness Symposium,  
 Bagni di Lucca, Italy (7/16-17)  
 2016 Workshop, Free Will as our Destiny, Omega Institute, Rhinebeck, NY (8/26-28)  
 2016 Workshop, Chicago IANDS, Evanston, IL (9/10)  
 2016 Workshop, Spirit University, Sarasota, FL (9/17-18)  
 2016 Workshop, Sedona Mago Retreat Center, Sedona, AZ (10/7-9)  
 2016 Keynote and Workshop, Traditional Chinese Medicine Conference, Reston, VA  
 (10/14-16)  
 2016 Keynote and Workshop, Cedar Tree Institute, Marquette, MI (10/21-22)  
 2016 Workshop, Community for Integrative Learning, Wilmington, DE (10/28-29)  
 2016 Keynote Address, Sfumato Dental Club, Columbus, OH (12/1)  
 2016 Keynote Presentations, Insight Events USA, Austin and San Antonio, TX (12/2-3)  
 2017 Workshop, The Open Center, New York, NY (1/21)  
 2017 Keynote and Workshop, La Conscience et l'Invisible Symposium, Paris,  
 France (2/4-5)  
 2017 Workshop, Sivananda Yoga Retreat Center, Paradise Island, Bahamas (3/6-10)  
 2017 Physicians and NDEs, Panel/Workshop, Vail Symposium, Vail, CO (3/16-17)  
 2017 Invited Lecturer, SoundsTrue Neuroscience Training Summit, Online (3/29)  
 2017 Keynote, The Wednesday Club Author Talks, Danville, VA (4/4)  
 2017 Workshop, Infinity Foundation, Chicago, IL (4/21-22)  
 2017 Workshop, Edward Via School of Osteopathic Medicine, Blacksburg, VA (4/27)  
 2017 Keynote Presentation, Muddy Creek Music Hall, Winston-Salem, NC (4/30)  
 2017 Keynote, Panel and Workshops, Sivananda Neuroscience Symposium, Paradise  
 Island, Bahamas (6/2-4)  
 2017 Keynote, Panel and Workshops, IANDS National Conference,  
 Westminster, CO (8/4-6)  
 2017 Keynote and Workshop, IIIHS International Conference, Montreal, CAN (8/11-14)  
 2017 Workshop, Riding the Wave of Consciousness, Omega Institute, Rhinebeck, NY  
 (8/25-27)  
 2017 Workshop, Beyond the Illusion, Multiversity 1440 Retreat Center,  
 Scotts Valley, CA (9/22-24)  
 2017 Workshop, The Open Center, New York, NY (10/7)  
 2017 Keynote Presentation, Ottawa International Writers Festival, Ottawa,  
 Canada (10/21)  
 2017 Workshop, Theosophical Society, Wheaton, IL (11/4)  
 2017 Keynote/Workshop, Mas Allá De La Luz Conference, Madrid, Spain (11/11-12)

2017 Alternatives UK Tour, Multi-Sensory Keynote, Edinburgh, Scotland (11/14)  
 2017 Alternatives UK Tour, Multi-Sensory Keynote, Birmingham, England (11/15)  
 2017 Alternatives UK Tour, Multi-Sensory Keynote, Bristol, England (11/16)  
 2017 Alternatives UK Tour, Multi-Sensory Keynote, London, England (11/17)  
 2017 Alternatives UK, Sound Meditation Workshop, London, England (11/18)  
 2018 Keynote Address, InGoop Health Summit, New York, NY (1/27)  
 2018 Keynote and Workshops, Sivananda Yoga Retreat Center, Paradise Island, Bahamas (2/17-19)  
 2018 Keynote Address, Young Presidents Organization, Beverly Hills, CA (2/27)  
 2018 Keynote and Workshop, Spirit University, Sarasota, FL (3/17-18)  
 2018 Panel and Workshop, Vail Symposium, Vail, CO (3/21-22)  
 2018 Keynote Address, Virginia Festival of the Book, Charlottesville, VA (3/24)  
 2018 Workshop, Muddy Creek Music Hall, Winston-Salem, NC (4/15)  
 2018 Keynote and Workshop, Rhine Center, Durham, NC (4/27-28)  
 2018 Keynote and Panel, McLean Borden Cottage, Camden, ME (6/2)  
 2018 Keynote and Workshop, IIIHS International Conference, Montreal, Canada (8/11-14)  
 2018 Keynote and Workshop, IANDS National Conference, Seattle, WA (8/30-9/2)  
 2018 Keynote Address, PBS Series: Ageless Living, Santa Fe, NM (9/7-8)  
 2018 Multiversity 1440 Retreat Center, Weekend Workshop: Living in a Mindful Universe, Scotts Valley, CA (9/28-30)  
 2018 Keynote Address, Kerry Vickar Centre, Melfort, Sask, Canada (10/4)  
 2018 Workshop, Kerry Vickar Centre, Melfort, Sask, Canada (10/5)  
 2018 Keynote Address, Centenary United Methodist Church, Winston-Salem, NC (10/7)  
 2018 Keynote Address, Shabtai, The Jewish Society at Yale, New Haven, CT (10/9)  
 2018 Workshops, Arlington Institute Transition Talks, Berkeley Springs, WV (10/13-14)  
 2018 Keynote/Workshop, Emergence 2018 Conference, Salt Lake City, UT (10/18-21)  
 2018 Workshop, Living in a Mindful Universe, Omega Institute, Rhinebeck, NY (10/26-28)  
 2018 NDE Symposium, AZ Zeno Hospital, Knokke-Heist, Belgium (10/31)  
 2018 Multi-sensory Keynote Address, Oostkamp, Belgium (11/1)  
 2018 Keynote Address, Beyond the Brain Conference, London, UK (11/3-4)  
 2018 Workshop, Journey into the Heart of Consciousness, London, UK (11/5)  
 2018 Healing with Sound Meditation, Infinity Foundation, Highland Park, IL (11/9)  
 2018 Workshop, Infinity Foundation, Highland Park, IL (11/10)  
 2019 Keynote Experiential, A-Ha! Holistic Healing Expo, Bradenton, FL (2/16)  
 2019 Workshop, A-Ha! Holistic Healing Expo, Bradenton, FL (2/17)  
 2019 Keynote Address, Charleston Jung Society, Charleston, SC (2/23)  
 2019 Workshop, Continuum of Consciousness, Sivananda Retreat Center, Paradise Island, Bahamas (4/5-8)  
 2019 Workshop, Art of Living Retreat Center, Boone, NC (5/3-5)  
 2019 Keynote Address, BWH Neuroscience Conference, Boston, MA (5/23)  
 2019 NDE Summit, Online Webinar (6/23)  
 2019 Keynote and Workshop, National Dowsing Convention, Plymouth, NH (6/28)  
 2019 Keynote Presentation, Unity of Fairfax/IANDS, Fairfax, VA (7/28)

2019 Keynote and Workshop, IIIHS International Conference, Montreal, Canada (8/16-25)  
 2019 Workshop, Transformation and Healing Conference, Santa Fe, NM (8/24)  
 2019 Keynote and Workshop. IANDS Annual Conference, King of Prussia, PA (8/29)  
 2019 Author Keynote, Milford Readers & Writers Festival, Milford, PA (9/21)  
 2019 Keynote and Workshop, Santé, Méditation et Conscience Symposium, Paris, France (9/29)  
 2019 Keynote, New Jersey Metaphysical Center Fall Festival, Hasbrouck Heights, NJ (10/27)  
 2019 Workshop, New Jersey Wellness Gala, Hasbrouck Heights, NJ (10/28)  
 2019 Workshop, Unity of Fairfax/IANDS, Fairfax, VA (11/17)  
 2020 Keynote and Panel, Earth 21 Live Lecture series at the Spiriday Expo, Budapest, Hungary (1/19)  
 2020 Lecture, Community Church of the Verdes, Rio Verde, AZ (2/10)  
 2020 Lecture, Life Austin Church, Austin, TX (3/8)  
 2020 Webinar, United in Hope and Healing, First of biweekly Online Series (3/26, etal.)  
 2020 Webinar, Helping Parents Heal, Online Series (4/21)  
 2020 Satsang Lecture, Sivananda Yoga Retreat Center, Online Series (4/24)  
 2020 Webinar, Association for Research and Enlightenment, Online Conference (5/2)  
 2020 Webinar, The Art of Dying Center, Online Workshop (6/4)  
 2020 Webinar, Theosophical Society in America, Online Workshop (6/13)  
 2020 Webinar, International Day of Hope & Healing, Lecture and Panel (6/22)  
 2020 Webinar, Shift Network, Free Lecture Event (8/4)  
 2020 Webinar, Explore the NDE through Science, Spirituality and Sound, Shift Network Seven-week Class (8/17 through 10/5)  
 2020 Keynote, Sun Valley Wellness Festival Online (8/22)  
 2020 Award Keynote, Infinity Foundation Online Event (10/16)  
 2020 Webinar, Infinity Foundation, Online Workshop (10/17)  
 2020 Web Summit, Beyond the Veil, Shift Network (10/26-30)  
 2020 Webinar, Association for Research and Enlightenment, Online Lecture (11/18)  
 2021 Webinar, Shift Network, Free Lecture Event (1/13)  
 2021 Webinar, Explore the Science Behind the Spiritual Realm, Shift Network Nine-week Class (1/25 through 3/29)  
 2021 Webinar, East West Bookshop Seattle, Online Workshop (3/6)

### **Awards and Honors:**

1977 The Engel Society  
 1980 Alpha Omega Alpha  
 1982 Brody Scholar in the History of Neuroscience  
 1983 American College of Surgeons Scholarship  
 1985 R.M.P. Donaghy Prize in Neurosurgery, Quebec and New England Neurosurgical Societies  
 1985 Award for Best Resident Paper, New England Neurosurgical Society  
 1993 Elected to "Ten Outstanding Young Leaders" (TOYL) by Greater Boston Jaycees  
 1995-96 Who's Who Among Outstanding Americans

1997-99 Listed in "Best Doctors in America -- Northeast Region"  
2013 The Dean's Cross, Virginia Theological Seminary, Alexandria, VA  
2020 Infinity Foundation Spirit Award, Chicago, IL

**Grant Support:**

1996 Investigator, Brigham Surgical Group Research Grant, Rapid Rate Magnetic Cortical Stimulation for MR Cortical Mapping. \$42,000 direct costs.

**Memberships, Offices and Committee Assignments in Professional Societies:**

1980-present American Medical Association  
1980-1987 North Carolina Medical Society  
1980-1987 Durham-Orange Counties Medical Society  
1983-2005 Massachusetts Medical Society  
1983-2001 Suffolk County Medical Society  
1988 Congress of Neurological Surgeons  
1987 General Scientific Session Committee  
1988 Joint Committee on Education Self-assessment and Sponsorship SANS IV  
Committee  
1989 Luncheon Seminars Committee  
Poster Sessions Co-chairman  
Sergeant-At-Arms Committee  
1989-present American Society for Stereotactic and Functional Neurosurgery (ASSFN)  
1993-1995 ASSFN Board of Directors  
1989-present World Society for Stereotactic and Functional Neurosurgery  
1989-present Joint Section on Stereotactic and Functional Neurosurgery of the American  
Association of Neurological Surgeons  
1991-1992 Chairman, Resources Committee, Joint Section on Tumors, American  
Association of Neurological Surgeons and Congress of Neurological Surgeons  
1991-1993 Self-Assessment for Neurological Surgery SANS V Committee  
1991-1995 Stereotactic Radiosurgery Task Force Member, American Association of  
Neurological Surgeons  
1991-1992 Chairman, Registration Committee, Congress of Neurological Surgeons  
1992-1993 Chairman, Registration Committee, American Association of Neurological  
Surgeons  
1992-1994 Joint Committee on Self-Assessment, AANS/CNS  
1983-1987 Joint Committee on Continuing Medical Education, AANS/CNS  
1992-1997 Chairman, Subcommittee on Education, Joint Section on Tumors, American  
Association of Neurological Surgeons and Congress of Neurological Surgeons  
1992-1997 Executive Council, Joint Section on Tumors, American Association of  
Neurological Surgeons and Congress of Neurological Surgeons  
1992-1995 Editor, World Directory of Neurological Surgeons (North American Edition),  
Congress of Neurological Surgeons  
1993-2001 Affiliate Member, American Society for Therapeutic Radiology and  
Oncology

1994-1996 Executive Council, Joint Section on Stereotactic and Functional Neurosurgery, American Association of Neurological Surgeons and Congress of Neurological Surgeons  
1994-1995 Program Chairman, International Stereotactic Radiosurgery Society Meeting, Boston, MA 1995  
1994-1996 Chairman, Membership Committee, International Stereotactic Radiosurgery Society  
1994-1998 Member, Board of Directors, American Association of Stereotactic and Functional Neurosurgery  
1994 Scientific Program Committee, Congress of Neurological Surgeons, San Francisco, CA 1995  
1997-1999 Chairman, Scientific Program Committee, International Stereotactic Radiosurgery Society Meeting, Sydney, Australia 1999  
1997-1998 President, XKnife Radiosurgery Society  
1999 Elected to membership, The American Academy of Neurological Surgery  
2018 Member, Scientific and Medical Network, London, UK  
2018 Scientific Advisor, Galileo Commission, London, UK

#### **Editorial Boards:**

1987-1993 Congress of Neurological Surgeons: Clinical Neurosurgery  
1994-2003 Journal of Image Guided Surgery  
1994-1999 Journal of Stereotactic and Functional Neurosurgery  
1994-2003 Ad Hoc Reviewer, Neurosurgery  
1999-2000 Methods in Biomedical Magnetic Resonance Imaging and Spectroscopy

#### **Major Research Interests:**

- 1) Advances in 3-dimensional imaging capabilities for enhancement of intraoperative management of intracranial tumors and vascular lesions, including image fusion between CT, MRI and SPECT, magnetic stimulation preoperative cortical mapping, and the Intraoperative MRI (MR/T) Project with the General Electric Corporation
- 2) Development of technical advances in the use of stereotactic radiosurgery using a modified linear accelerator and the proton beam in the treatment of neoplastic, vascular and functional lesions in the central nervous system
- 3) MR-guided Focused Ultrasound Surgery for the treatment of tumors (benign and malignant), clot dissolution in stroke and intracerebral hemorrhage, neuromodulation, creation of focal brain lesions, and precise targeted delivery of drugs and genes within the brain.
- 4) Design of acoustic patterns and music, especially utilizing complex stereo manipulations, to enhance alterations in transcendent states of consciousness.



### **Principal Clinical and Hospital Service Responsibilities:**

1988-2003 Attending neurosurgeon

2006-2007 Attending neurosurgeon

### **Teaching Experience:**

1988-89 Neurobiology Course, Tutorial Leader, New Pathway, Harvard Medical School.  
1988-93 Clinical Instructor, Physical Diagnosis Course, Second Year Medical Students, Harvard Medical School.

1988-93 Surgery Elective, Neurosurgery Didactic Sessions, Harvard Medical School.

1990 Invited Lecturer, Postgraduate Medical Series Neurosurgery Session, Brigham & Women's Hospital

1993 Thesis Review, Graduation with Honors Program, Harvard Medical School

1993 Invited Lecturer, Human Nervous System and Behavior, Harvard Medical School

### **Peer Reviewed Publications**

1. Soules, MR, Hughes, CL Jr., Garcia JR, Livengood, CH, Prystowsky, MR, Alexander, E III. Nausea and vomiting of pregnancy: Role of human chorionic gonadotropin and 17-hydroxyprogesterone. *Obstetrics and Gynecology*. 1980; 55(6): 696-700.

2. Alexander, E., Jr., Alexander E., III. German influence on the work of Harvey Cushing, the pioneer of neurosurgery in America. *Neurosurgery*. 1981; 9 (5) 501-505.

3. Alexander, E., III, Friedman, AH. Characteristics of adrenergic receptors in human pial arterioles. *Surgical Forum*. 1983; 43: 508.

4. Alexander, E, III, Black, P McL, Liszczak, TM, Zervas, NT. Delayed CSF lavage for arteriographic and morphological vasospasm after experimental SAH. *J Neurosurg*. 1985; 63: 949-958.

5. Rossitch, E, Jr, Alexander, E, III, Schiff, SJ, Bullard, DE. Computer tomography guided stereotactic aspiration of a brainstem abscess. *Clinical Neurology and Neurosurgery*. 1988; 90:365-368.

6. Rossitch E, Jr., Carrazana, EJ, Ellenbogen, RG, Alexander, E, III. Kluver-Bucy syndrome following recovery from transtentorial herniation. *British Journal of Neurosurgery*. 1989; 3: 503-506.

7. Alexander E, III, Siddon, RL, Loeffler, JS. The acute onset of nausea and vomiting following stereotactic radiosurgery: Correlation with total dose to area postrema. *Surgical Neurology*. 1989;32: 40-44.

8. Loeffler, JS, Alexander E, III, Siddon RL, Saunders, WM, Coleman, CN, Winston, KR. Stereotactic radiosurgery for intracranial arteriovenous malformations using a standard linear accelerator. *International J Radiation Oncology, Biology and Physics*. 1989; 17: 673-677.
9. Alexander, E, III, Rossitch, E, Jr., Small, K, Rossenwasser, GO, Abson, P. Merkel cell carcinoma: long term survival in a patient with proven brain metastasis and presumed choroid metastasis. *Clinical Neurology and Neurosurgery*. 1989; 91 (4):317-320.
10. Small, KW, Rosenwasser, GO, Alexander, E III, Rossitch, E Jr, Dutton JJ. Presumed choroidal metastasis of Merkel cell carcinoma. *Annals of Ophthalmology*. 1990; 22:187-190.
11. Loeffler, JS, Alexander, E, III. The role of stereotactic radiosurgery in the management of intracranial tumors. *Oncology*. 1990; 4(3): 21-31.
12. Loeffler, JS, Kooy, HM, Wen, PY, Fine, HA, Cheng, C-W, Mannarino, EG, Tsai, JS, Alexander, E, III. The treatment of recurrent brain metastases with stereotactic radiosurgery. *Journal of Clinical Oncology*. 1990; 8(4): 576-582.
13. Rossitch, E Jr, Moore, MR, Alexander, E, III, Black, PMcL. The neurosurgeon's neurosurgeon. Cushing operates on a Penfield. *Surgical Neurology*. 1990; 33:150-153.
14. Crawford, JM, Rossitch, E, Jr., Oakes, WJ, Alexander, E, III. Arteriovenous malformation of the great vein of Galen associated with patent ductus arteriosus: Report of three cases and review of the literature. *Child's Nervous System*. 1990; 6:18-22.
15. Loeffler, JS, Rossitch E, Jr., Siddon, RL, Moore, MR, Rockoff, MA, Alexander, E, III. The role of stereotactic radiosurgery with a linear accelerator in the treatment of intracranial arteriovenous malformations and tumors in children. *Pediatrics*. 1990; 85(5): 774-782.
16. Alexander E III, Moore, MR, Siddon, RL, Rossitch E, Jr., Loeffler, JS. Successful management of intracranial arteriovenous malformations (AVM) with stereotactic external beam using a standard linear accelerator. *Stereotactic and Functional Neurosurgery*. 1990; 54 + 55: 548-549.
17. Alexander E III, Rossitch E, Jr., Siddon, RL, Moore, MR, Loeffler, JS. The role of stereotactic radiosurgery with a linear accelerator in the treatment of pediatric intracranial tumors. *Stereotactic and Functional Neurosurgery*. 1990; 54 + 55: 549-550.
18. Loeffler JS, Siddon RL, Wen PY, Nedzi LA, Alexander E III. Stereotactic radiosurgery of the brain using a standard linear accelerator: study of early and late effects. *Radiotherapy and Oncology*. 1990; 17:311-321.

19. Nashold, BS, Jr., Rossitch, E, Jr., Alexander, E, III. Dorsal root entry zone surgery for pain management: An update. *Pain Management*. 1991: 4(1): 15-23.
20. Alexander E III, Friedman, AH. Radioligand binding to adrenergic receptors in human pial membranes. *Neurosurgery*. 1990: 27(1):52-59.
21. Loeffler JS, Alexander E III, Hochberg FH, Wen PY, Morris J, Siddon RL, Schoene W, Morse RH, Black PMcL. Clinical patterns of failure following stereotactic interstitial irradiation in malignant gliomas. *Int J Radiat Oncol Biol Phys* 1990;19:1455-1462.
22. Carvalho PA, Schwartz RB, Alexander E III, Loeffler JS, Zimmermann RE, Nagel JS, Holman BL. Extracranial metastatic glioblastoma: appearance on Tl-201 chloride/Tc-99m-hmpao SPECT. *J Nucl Med* 1991: 32:322-324.
23. Rossitch E Jr, Alexander, E III, Black, PM, Cooke JP. L-arginine normalizes endothelial function in cerebral vessels from hypercholesterolemic rabbits. *J Clin Invest*. 1991: 87: 1295-1299.
24. Loeffler JS, Alexander E III, Wen PY, Shea WM, Coleman CN, Kooy HM, Fine HA, Nedzi LA, Silver B, Riese NE, Black PM. Results of stereotactic brachytherapy used in the initial management of patients with glioblastoma. *J Nat Cancer Inst*. 1990: 82:1918-1921.
25. Tsai J-S, Buck BA, Svensson GK, Alexander E III, Cheng C-W, Mannarino EG, Loeffler JS. Quality assurance in stereotactic radiosurgery using a standard linear accelerator. *Int J Radiat Oncol Biol Phys* 21: 737-748, 1991.
26. Kooy HM, Nedzi LA, Loeffler JS, Alexander E III, Cheng CW, Mannarino E, Holupka E, Siddon RL. Treatment planning for stereotactic radiosurgery of intracranial lesions. *Int J Radiat Oncol Biol Phys*. 21: 683-693, 1991.
27. Nedzi LA, Kooy H, Alexander E III, Gelman RS, Loeffler JS. Variables associated with the development of complications from radiosurgery of intracranial tumors. *Int J Radiat Oncol Biol Phys*. 21: 591-599, 1991.
28. Holman BL, Zimmerman RE, Johnson KA, Carvalho PA, Schwartz RB, Loeffler JS, Alexander E, Pelizzari CA, Chen GTY. Computer-assisted superimposition of magnetic resonance and high resolution Technetium-99m-HMPAO and Thallium-201 SPECT images of the brain. *J Nucl Med* 32(8):1478-1484, 1991.
29. Loeffler JS, Macklis RM, Wen PY, Fine HA, Alexander E III, Coleman CN. Alternative and future strategies in the treatment of malignant gliomas. *Semin Rad Oncol*,1: 69-78, 1991.
30. Alexander, E III, Loeffler, JS: Introduction, to *Radiosurgery: Enhancement of Clinical Excellence*, Alexander, E III, Loeffler, JS, Gildenberg, PL, Franklin, PO (Eds). *Stereotactic and Functional Neurosurgery*, 1992: 57(1): 5-6.

31. Coleman CN, Noll L, Riese N, Buswell L, Howes AE, Loeffler JS, Alexander E III, Wen P, Harris JR, Kramer RA, Hurwitz SJ, Neben TY, Grigsby P. Final report of the Phase I trial of continuous infusion etanidazole (SR2508): A radiation therapy oncology group study. *Int J Radiat Oncol Biol Phys.* 22: 577-580, 1992.
32. Hurwitz SJ, Coleman CN, Riese N, Loeffler JS, Alexander E III, Buswell L, Neben TY, Shargel L, Kramer RA. Distribution of etanidazole into human brain tumors: Implications for treating high grade gliomas. *Int J Radiat Oncol Biol Phys.* 22:573-576, 1992.
- 33a. Schwartz RB, Carvalho PA, Alexander E III, Loeffler JS, Folkerth R, Holman BL. Dual isotope SPECT using Tl-201 and Tc-99m hmpao in the differentiation of radiation necrosis from recurrent glioma. *AJNR* 12: 1187-1192, 1991.
- 33b. Schwartz RB, Carvalho PA, Alexander E III, Loeffler JS, Folkerth R, Holman, BL: Radiation necrosis versus high - grade recurrent glioma: differentiation by using dual isotope SPECT using Tl-201 and Tc-99m HMPAO. *AJR* 158: 399-404, 1992
34. Loeffler JS, Alexander E III, Shea WM, Wen PY, Fine HA, Kooy HM, Black P McL: Radiosurgery as part of the initial management of patients with malignant gliomas. *J Clinical Oncology*, 10:1379-1385,1992.
35. Carvalho PA, Schwartz RB, Alexander E III, Garada BM, Zimmerman RE, Loeffler JS, Holman BL. Detection of recurrent gliomas with quantitative Thallium-201/ Technetium-99m hmpao single-photon emission computed tomography. *J Neurosurg* 77 (4): 565-570, 1992.
36. Alexander E III, Loeffler JS. Radiosurgery for intracranial vascular malformations: techniques, results and complications. *Clin Neurosurg* 39: 273-291, 1992.
37. Nedzi LA, Kooy HM, Alexander E III, Svensson GK, Loeffler JS: Dynamic field shaping for stereotactic radiosurgery: A modeling study. *Int J Radiat Oncol Biol Phys* 25:859-869, 1993.
38. Alexander E III, Loeffler JS, Schwartz RB, Johnson KA, Carvalho PA, Garada BM, Zimmerman RE, Holman BL. Thallium-201 Technetium-99m HMPAO stereotactic craniotomies in heavily irradiated malignant glioma patients. *Acta Neurochirurgica* 122: 215-217, 1993.
39. Tishler RB, Loeffler JS, Lunsford LD, Duma C, Alexander E III, Kooy HM, Flickinger JC: Tolerance of cranial nerves of the cavernous sinus to radiosurgery. *Int J Radiat Oncol Biol Phys*, 27: 215-221, 1993.
40. Kooy HM, Nedzi LA, Ledoux RL, Alexander E III, Loeffler JS: Dose-volume histogram computations for small intracranial volumes. *Med Phys* 20: 755-760, 1993.

41. Black P McL, Tarbell N, Alexander E III, Rockoff M, Zhan, M, Loeffler JS: Stereotactic techniques in managing pediatric brain tumors. *Child's Nerv Syst*: 9:343-347, 1993.
42. Alexander E III: Glioblastoma Revisited: Do clinical observations match basic science theory? *Radiosurgery: Clinical observations. J Neuro-oncology* 17: 167-173, 1993.
43. Haregewoin A, Alexander E III, Black P McL, Loeffler JS: Autocrine regulation of the production of the gaseous messenger nitric oxide in a glioblastoma cell line. *Experimental Cell Research* 210:137-1139, 1994.
- 44a. Larson DA, Bova F, Eisert D, Kline R, Loeffler J, Lutz W, Mehta M, Palta J, Schewe K, Schultz C, Shaw E, Wilson JF, Lunsford LD, Alexander E, Chapman P, Coffey R, Friedman W, Harsh G IV, Maciunas R, Olivier A, Steinberg G, Walsh J: Consensus statement on stereotactic radiosurgery quality improvement. *Int J Radiat Oncol Biol Phys* 28:527-530, 1994.
- 44b. Lunsford LD, Alexander E, Chapman P, Coffey R, Friedman W, Harsh G IV, Maciunas R, Olivier A, Steinberg G, Walsh J, Larson DA, Bova F, Eisert D, Kline R, Loeffler J, Lutz W, Mehta M, Palta J, Schewe K, Schultz C, Shaw E, Wilson JF: Consensus statement on stereotactic radiosurgery quality improvement. *Neurosurgery* 34:193-195, 1994.
45. Gleason PL, Kikinis R, Altobelli D, Wells W, Alexander E III, Black PM, Jolesz F: Video registration virtual reality for nonlinkage stereotactic surgery. *Stereotact Funct Neurosurg* 63 (1-4): 139-143, 1994.
46. Kooy HM, Van Herk M, Barnes PD, Alexander E III, Dunbar SF, Tarbell NJ, Mulkern RV, Holupka EJ, Loeffler JS: Image fusion for stereotactic radiotherapy and radiosurgery treatment planning. *Int J Radiat Oncol Biol Phys* 28:1229-1234, 1994.
47. Wen PY, Alexander E III, Black PM, Fine HA, Riese N, Levin JM, Coleman CN, Loeffler JS: Long term results of stereotactic brachytherapy used in the initial treatment of patients with glioblastomas. *Cancer* 73:2029-2036, 1994.
48. Riese NE, Loeffler JS, Wen PY, Alexander E III, Black P McL, Coleman CN: A phase I study of etanidazole and radiotherapy in malignant glioma. *Int J Radiat Oncol Biol Phys* 29:617-620, 1994.
49. Hughes-Davies L, Mannarino E, Alexander E III, Kooy H, Loeffler JS: Technical modifications required to treat cervical chemodectomas with stereotactic radiosurgery. *Surg Neurol* 41:418-420, 1994.

50. Dunbar SF, Tarbell NJ, Kooy HM, Alexander E III, Black P McL, Barnes PD, Goumnerova L, Scott RM, Pomeroy S, LaVally B, Sallan SE, Loeffler JS: Stereotactic radiotherapy for pediatric and adult brain tumors: preliminary report. *Int J Radiat Oncol Biol Phys*, 30:531-539, 1994.
51. Loeffler JS, Shrieve DC, Alexander E III: Radiosurgery for glioblastoma multiforme: the importance of selection criteria. *Int J Radiat Oncol Biol Phys* 30:731-733, 1994.
52. Bodis S, Alexander E III, Kooy H, Loeffler JS: The prevention of radiosurgery-induced nausea and vomiting by ondansetron: evidence of a direct effect on the central nervous system chemoreceptor trigger zone. *Surg Neurol* 42(3):249-252, 1994.
53. Shrieve DC, Tarbell NJ, Alexander E III, Kooy HM, Black PMcL, Dunbar S, Loeffler JS: Stereotactic radiotherapy: a technique for dose optimization and escalation for intracranial tumors. *Acta Neurochir* 62:55-60, 1994.
54. Alexander E III, Moriarty TM, Davis RB, Wen PY, Fine HA, Black PM, Kooy HM, Loeffler JS: Stereotactic radiosurgery for the definitive, noninvasive treatment of brain metastases. *J National Cancer Institute* 87 (1):34-40, 1995.
55. Alexander E III, Kooy HM, van Herk M, Schwartz M, Barnes PD, Tarbell N, Mulkern RV, Holupka EJ, Loeffler JS: MRI-Directed stereotactic neurosurgery: Use of image fusion with CT to enhance spatial accuracy. *J Neurosurg* 83:271-276, 1995.
56. Stokes MA, Soriano SG, Tarbell NJ, Loeffler JS, Alexander E III, Black PMcL, Rockoff MA: Anesthesia for stereotactic radiosurgery in children. *J Neurosurg Anesth*, 7:100-108, 1995.
57. Shrieve DC, Alexander E III, Wen PY, Fine HA, Kooy HM, Black PM, Loeffler JS: Comparison of stereotactic radiosurgery and brachytherapy in the treatment of recurrent glioblastoma multiforme. *Neurosurg* 36(2): 275-284, 1995.
58. Sarkaria JN, Mehta MP, Loeffler JS, Buatti JM, Chappell RJ, Levin AB, Alexander E III, Friedman WA, Kinsella TJ: Radiosurgery in the initial management of malignant gliomas: survival comparison with the RTOG recursive partitioning analysis. *Int J Radiat Oncol Biol Phys* 32:931-941, 1995.
59. Schwartz MS, Loeffler JS, Black P McL, Shrieve DC, Wen PY, Fine HA, Alexander E III. Reoperation following radiosurgery of glioblastoma: impact on survival and neurologic status. *Radiosurgery* 1:141-157, 1996.
60. Moriarty TM, Loeffler JS, Black P McL, Shrieve DC, Wen PY, Fine HA, Kooy HM, Alexander E III. Long-term follow-up of patients treated with stereotactic radiosurgery for single or multiple brain metastases. In: Alexander E III, Kondziolka D, Lindquist C, Loeffler JS, (eds), *Radiosurgery 1995*, Karger, Basel, pp 83-91, 1996.

61. Kooy HM, Cosman ER, Harlan RB, Ledoux RJ, Bellerive MR, Hacker FL, Killoran JH, Mannarino EG, Tarbell NJ, Alexander E III, Shrieve DC, Loeffler JS: A dynamic collimator system for conformal stereotactic radiosurgery and radiotherapy. In: Alexander E III, Kondziolka D, Lindquist C, Loeffler JS, (eds), *Radiosurgery 1995*, Karger, Basel, pp 276-287, 1996.
62. Loeffler JS, Shrieve DC, Alexander E III, Kooy HM, Tarbell NJ, Stieg PE, Wen PY, Black P McL: Stereotactic radiotherapy for meningiomas. In: Alexander E III, Kondziolka D, Lindquist C, Loeffler JS, (eds), *Radiosurgery 1995*, Karger, Basel, pp 47-54, 1996.
63. Schulder M, Loeffler JS, Howes AE, Alexander E III, Black P McL: The radium bomb: Harvey Cushing and the interstitial irradiation of gliomas. *J Neurosurg* 84:530-532, 1996.
64. Kikinis R, Gleason PL, Moriarty TM, Moore MR, Alexander E III, Stieg PE, Matsumae M, Lorenson WE, Cline HE, Black PM, Jolesz FA: Computer-assisted interactive three-dimensional planning for neurosurgical procedures. *Neurosurgery* 38 (4): 640-651, 1996.
65. Auchter RM, Lamond JP, Alexander E III, Buatti JM, Chappell R, Friedman WA, Kinsella TJ, Levin AB, Noyes WR, Schultz CJ, Loeffler JS, Mehta MP: A multiinstitutional outcome and prognostic factor analysis of radiosurgery for resectable single brain metastasis. *Int J Radiat Oncol Biol Phys* 35:27-35, 1996.
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## **LETTERS**

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*Rev. 3-29-2021*