

CURRICULUM VITAE
ALLAN J. HAMILTON, MD, FACS

Academic Office: Suite 2216
Az Simulation Technology & Education Center
Arizona Health Sciences Center
University of Arizona
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Personal: info@ranchobosque.com

EDUCATION:

College: Ithaca College, Ithaca, NY, (Magna Cum Laude), English Literature & Education
Pre-Medical: Hamilton College, Clinton, NY
Medical School: Harvard Medical School, Harvard University, Boston, MA (Honors)
Postgraduate Medical Training:
Surgical Internship, Massachusetts General Hospital (MGH), Boston, MA
Neurosurgical Residency, Massachusetts General Hospital, Boston, MA
Chief Residency, Dept. of Neurosurgery, MGH, Boston, MA
Fellowship:
Neurology. & Neurosurgery Research Fellow, National Institutes of Health

EMPLOYMENT:

Exec. Director, Arizona Surgical Technology & Education Center (ASTECC), College of Medicine July 1, 2004-present
Professor (with tenure), Department of Surgery, Division of Neurosurgery, University of Arizona, 2000-present
Research Professor, Dept. of Electrical and Computer Engineering, College of Engineering, University of Arizona, March 2007-present
Research Professor, Dept. of Psychology, University of Arizona, August 20, 2001-present
Clinical Professor, Dept. of Radiation Oncology, University of Arizona, July 1, 2000 to present
Chairman, Dept. of Surgery, University of Arizona, Feb 2, 1999-July 1, 2004
Acting Chairman, Dept. of Surgery, University of Arizona, Sept 1, 1997-Feb 2, 1999
Chief, Division of Neurosurgery, Dept. of Surgery, University of Arizona, May 24, 1995-July 1, 2004

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ALLAN J. HAMILTON, MD, FACS

Associate Professor (with tenure), Dept. of Surgery, Division of Neurosurgery,
University of Arizona, May 1996-July 2000
Clinical Associate Professor, Dept. of Radiation Oncology, University of Arizona, Sept
1996-July 2000
Faculty, Biomedical Engineering Program, Graduate College, University of Arizona, Dec
1997-present
Clinical Assistant Professor, Department of Radiation Oncology, University of Arizona,
Feb 1 1992-1996
Director, Heather Farr Memorial Stereotactic Research Laboratory & Joshua Couch
Memorial Brain Tumor Research Laboratory, College of Medicine, University of
Arizona, 1993-present
Acting Chief, Section of Neurosurgery, Department of Surgery, University of Arizona,
Nov 1, 1993-May 24, 1995
Executive Director, Minimally Invasive Stereotactic Neurosciences Program, University
of Arizona Health Sciences Center, Tucson, AZ, Sept 3, 1993-present
Director of Stereotactic Neurosurgery, University of Arizona Health Sciences Center,
University Medical Center, Tucson, AZ, July 1, 1992-present
Clinical Faculty, Arizona Cancer Center, Tucson, AZ, Oct 1991-present
Assistant Professor, Surgery, Section of Neurosurgery, Dept. of Surgery, University of
Arizona, Aug 1, 1990-1996
Visiting Faculty, Clinical Asst. Professor of Surgery, Uniformed Services, University of
the Health Sciences, Bethesda, MD, 1989-present
Clinical Assistant, Dept. of Neurosurgery, Massachusetts General Hospital, Boston, MA
1989-1990

RESEARCH TRAINING:

Research Physiologist, U.S. Army Research Institute of Environmental Medicine, U.S.
Army Research and Development Command, Natick, MA, Dr. Allen Cymerman
(Supervisor), Chief, Altitude Research Division; Jan 1986-June 1987
NIH Neurology & Neurosurgery Research Fellow, Pappas Neurosurgical Research
Laboratories, Dr. Peter M. Black (Supervisor), Associate Professor of
Neurosurgery, with work in the Endocrine Peptide Laboratories under the
supervision of Dr. Daniel B. Carr; July 1983-June 1984

MILITARY SERVICE:

U.S. Army Medical Corps (Reserves), 1984-1991
Active Duty, 1986-1988, 1990-1991 (Operation Desert Storm)
Honorable Discharge, 8/28/91
Rank: Major

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LICENSURE & CERTIFICATION:

Certification, American Board of Neurological Surgeons, May 1995 (#95026)
Arizona State Medical License, Aug 1990 (#19574)

HONORS & AWARDS:

Recipient, 2012 Vernon & Virginia Furrow Award for Academy of Medical Education
Scholars Grant in Simulation
Selected as “One of America’s Top Surgeons,” 2012, Consumers Research Council of
America
National Winner, 2011 Nautilus Gold Medal for *Zen Mind, Zen Horse*, a non-fiction
work “that change the world one book at a time.”
Visiting Scholar-in-Residence, Thacher School, Ojai, CA April 22-24, 2012
Member, Taskforce for National Initiative to Reduce Maternal and Neonatal Mortality in
Childbirth, Republic of Gabon in conjunction with Albert Schweitzer International
Fellowship and Harvard School of Public Health, Boston, MA 2012-present
Finalist, 2011 Books for Life, sponsored by Multiple Sclerosis Society, New York Times
Center, New York City, NY, March 12, 2012
Horseman of the Year 2012, the American Horsemen’s Association
2012 National Prize, Congressional Institute of Fire Safety, Award for Innovation in
Training and Educational Technology, presented to Northwest Fire Department in
Collaboration with the Arizona Simulation Technology and Education Center; award
presented in US Capitol to delegation by Senator John McCain (R, Arizona), January 25,
2012
Selected as Moderator, C-Span National Broadcast, New Books about the Human Brain
2011-2012, Tucson Festival of Books, Tucson, AZ March 11, 2012
Distinguished Fellowship, Medical Institute for Innovation, Washington DC, Oct 31,
2011
Selected as "One of America's Best Doctors" 2000-2014; 15th consecutive year
2009 Nautilus Silver Medal for *The Scalpel and the Soul*, a non-fiction work “that change
the world one book at a time.”
Included in Who’s Who in American Science and Technology 2008-present
Included in The Contemporary Who’s Who 2002-present
Included in Strathmore’s Who’s Who 2003-present
Honorary Associate, International Albert Schweitzer Foundation, United Nations, NY,
1990-present
Included in 2000 Outstanding Intellectuals of the 21st Century, International Biographical
Centre, Cambridge, England
Outstanding Research Faculty Mentor of the Year 2001
Elected to Scientific Board of Advisors New York University’s Re-Wired for Life, a non-
profit organization for advancing Deep Brain Stimulation
Included 10th Ed. International Directory of Distinguished Leadership 2001
Elected to Glioma Outcomes Project National Advisory Board, July 2001

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Elected to Board of Directors, AANS and CNS Joint Section on Stereotactic & Functional Neurosurgery (4 year term July 1998-June 2002)
Fellow, American College of Surgeons, Oct 10, 1996-present
Robert G. Ojemann Award for Excellence in Neurosurgical Teaching (Upjohn Co.), 1994-95; 1995-96
International Lars Leksell Award for Pioneering Contribution to the field of Neurosurgery by a Young Neurosurgeon, 10th European Congress of Neurosurgery. Presented in Berlin, Germany, Awarded May 8, 1995
Bernard J. Cosman Award for Innovation, American Society for Stereotactic and Functional Neurosurgery, presented Marina del Rey, CA, March 10, 1995
Dean's Teaching Scholar, University of Arizona College of Medicine, 1993
Biography in Military Surgical Heritage, Uniformed Services University of the Health Sciences, Bethesda, MD, 1991
Finalist, National United States Army Science Conference, U.S. Military Academy at West Point, NY, 1988
National Institutes of Health Neurology & Neurosurgery Research Fellowship, 1983
Albert Schweitzer Fellow, International Albert Schweitzer Foundation, 1981
Cabot Prize, Best Senior Thesis in History of Medicine, Harvard Medical School, 1982
Olsen Memorial Fellowship, National Masonic Medical Research Foundation, 1978

SERVICE:

Outreach:

National/International:

Member, Appointed to Joining Forces Initiative to Improve Health and Wellness of Veterans, American Association of Medical Colleges, 2012
Facilitator, TEDMed AAMC Simultaneous Broadcast
Advisor, TEDx Tucson
Member, Taskforce for National Initiative to Reduce Maternal and Neonatal Mortality in Childbirth, Republic of Gabon in conjunction with Albert Schweitzer International Fellowship and Harvard School of Public Health, Boston, MA 2012-present
Neurosurgical Script Consultant, "Grey's Anatomy" Television Series, Touchstone Studios, 2006-present
Member, Executive Stereotactic Committee, ANNS, 1996-2000
Advisor, National Executive Committee, Case Management Society of America (CMSA), 1999-2003
Member, Surgical Advisory Committee, Uniformed Services University of the Health Sciences, 1990-present
Advisor to Surgeon General of the United States, Vice Admiral Richard Carmona, MD, 2002-2006
Member, Scientific Board of Advisors, Re-Wired for Life, June, 2001-present
American Association for Advancement of Science, 2000-present
Clinical Consultant, Sunstone Healing Center (Arizona Cancer Center), Tucson, AZ, 1999-present

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Member, Advisory Board, Gliomas Outcomes Project, 1999-2004
Member, Executive Committee for the International Society for Radiosurgery, 1999-2004
Clinical Advisor, Zeiss, Inc, New York, NY, 1997-2001
Consultant, Guilford Pharmaceuticals, Baltimore, MD, 1996-present
Consultant, Cooke, Inc., Indianapolis, Indiana, 1993-present
Clinical Advisor, Fischer-Leibinger Companies, Dallas, TX and Freiburg, Germany, 1993-2000
Member, Task Force on Radiosurgery, Brain Tumor Cooperative Group, 1992-2000
Clinical Advisor, Anspach Effort, Inc., Miami, FL, 1992-1994
Physician Member, Mexico Outreach Planning Committee, 1992-1996
Clinical Instructor & Advisor, Midas Rex Institute Workshop, Craniofacial Bone Dissection Techniques, 1991-1994
Visiting Faculty, Department of Surgery, Uniformed Services, University of the Health Sciences, Bethesda, MD, 1989-1996
Medical Consultant, 1989 Wyoming Centennial Expedition to Mt. Everest, 1988-1989
Scientific Consultant, U.S. Army Medical Research and Development Command, Fort Detrick, MD, 1987-1999
Medical Curriculum Advisor, Aerospace and Aviation Medicine, Fort Rucker, AL, 1987-1989
Medical Officer and Advisor, U. S. Marine Corps Mountain Warfare Training Center, Bridgeport, CA, 1987-1988
Medical and Scientific Consultant, 1988 Uniformed Services University of Health Sciences Research Expedition to Mt. Aconcagua (Argentina), 1987-1988
Medical and Scientific Consultant, 1988 Northwest American Everest Expedition to Mt. Everest, 1987-1988
Consultant, Osler Medical Institute, Oral Neurosurgical Board Examinations Preparation, 1995-2006
High Altitude Medicine Consultant, Medical Research and Development Command, Fort Meade, MD, 1984-2000

Local/State:

Physician Member, Board of Directors, Therapeutic Riding of Tucson, Woodland Rd., Tucson, September 28, 1998-2002
Consultant, Arizona Board of Medical Examiners, 1998-present
Member, Legislative Committee, Arizona Head Injury Foundation, 1991-2004
Professional Associate Member, Spina Bifida Association of Southern Arizona, 1991-2004
Team Physician and Medical Consultant, University of Arizona Collegiate Rodeo Team, 1990-2002
Physician and Medical Consultant, Turquoise Circuit Professional Rodeo, 1990-1995

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Physician-in-Attendance and Medical Consultant, Fiesta de los Vaqueros, Tucson, AZ,
1990-2004

Extramural activities:

Elected member, The Society of Neurological Surgeons, Elected member, Executive
Committee, Joint Association of Stereotactic and Functional Neurosurgery (1998-2002)
Society of University Neurosurgeons
The Western Neurosurgical Society
American College of Surgeons
American Association of Neurological Surgeons
Rocky Mountain Neurosurgical Society
International Stereotactic Radiosurgery Society (Charter Member, 1992)
Joint Section on Tumors, American Association of Neurological Surgeons & Congress of
Neurological Surgeons
Congress of Neurological Surgeons

EDITORIAL BOARDS & APPOINTMENTS:

Editorial Board, *Journal of Radiosurgery*
Ad Hoc Editorial Reviewer, *New England Journal of Medicine*
Ad Hoc Editorial Reviewer, *American Journal of Clinical Oncology*
Ad Hoc Reviewer, *Annals of Internal Medicine*
Contributing Editor, *Spirituality and Health*

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PUBLICATIONS: (Bold font denotes primary or senior authorship)

Books:

1. **Hamilton AJ:** *The Scalpel and the Soul: Encounters with Surgery, the Supernatural, and the Healing Power of Hope*, 2008, New York: Tarcher/Penguin Books, 2008 (ISBN 978-1-58542-615-7)
2. **Hamilton AJ:** *Zen mind, Zen Horse: The Science and Spirituality of Working with Horses*, 2011, North Adams, MA: Storey Publishing Inc. 2011 (ISBN 978-1603425650)

Monographs:

1. **Hamilton AJ**, Ruppert J, Wilson AL (Eds.): *Management of the Brain Tumor Patient*, Newton PA: Oxford Institute, 1999.
2. **Hamilton AJ:** *Intracavitary Chemotherapy: A New Role for the Neurosurgeon*, New York, NY: HealthCare, Inc, 1999.
3. **Hamilton AJ:** Medical Simulations in the Diagnosis and Management of Intracranial Neoplasms, Darien, CT: *InterMed Interactive Medical Communications*, July 1, 2000.
4. Friedman H, **Hamilton AJ**, Lesser G, Olivi A, Rhines L, Ryken T, Stevens G: Management of Patients Receiving Chemotherapeutic Implants for the Treatment of Malignant Gliomas, CME Monograph, *Postgraduate Inst. For Medicine*, Englewood, CO, Sept 2001.

Book Chapters:

Scholarly Works:

1. Huang S-Y, Bender PR, Groves BM, McCullough RE, McCullough RG, Micco AJ, Manco-Johnson M, Hamilton AJ, Wagner PA, Reeves JT: "Cerebral Blood Flow During Exercise at Sea Level and High Altitude". In: JR Sutton, G Coates, JE Remmers (Eds.): *Hypoxia: The Adaptations*, B. C. Decker, Inc., Toronto & Philadelphia, pp. 196-199, 1990
2. **Hamilton AJ**, Lulu BA, Fosmire H, Stea B, Cassady JR: "Preliminary Clinical Experience with Linear Accelerator-based Spinal Stereotactic Radiosurgery". In: Bradley WG & Wilkins RH (Eds.): *Yearbook of Neurology and Neurosurgery* Chicago, Ill: Mosby-Year Book, Inc., pp 407-408, 1996
3. **Hamilton AJ:** "Stereotactic Radiosurgery of Spinal Metastases". In Maciunas RJ (ed): *Advanced Techniques in Central Nervous System Metastases*, Park Ridge, Illinois, American Association of Neurological Surgeons Publications, pp255-269, 1998
4. Takacs I, **Hamilton AJ:** "Extracranial Stereotactic Radiosurgery: Applications for the Spine and Beyond". In Kondziolka D (ed) *Neurosurgery Clinics of North America* 10(2): 257-270, 1999
5. **Hamilton AJ**, Stea B, Lulu BA: "Stereotactic Radiosurgery for Vascular Malformations of the Brain". In Spetzler R, Carter LP: *Vascular Neurosurgery*, New

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- York, NY: McGraw Hill, Inc., pp. 1073-1087, 1995
6. **Hamilton AJ**, Weinand ME: "Neurosurgery". In Jarrell & Calabas (Eds.): *NMS Surgery*, Media, PA: Harwal Publishing-Williams & Wilkins, Inc., 495-526, 1996
 7. Manwaring K, Hamilton AJ: "Neurosurgical Endoscopy". In Tindall GT, Cooper PR, and Barrow DL: *The Practice of Neurosurgery*, Baltimore, MD: Williams & Wilkins, Inc., pp. 233-242, 1996
 8. **Hamilton AJ**: "Open and Closed Techniques for Diagnostic Brain Biopsy", In Tindall GT, Cooper PR, and Barrow DL: *The Practice of Neurosurgery*, Baltimore, MD: Williams & Wilkins, Inc., pp.223-231, 1996
 9. **Hamilton AJ**, Lulu BA: "Stereotactic Principles and Their Clinical Application". In Guthkelch AN & Misulis KE (Eds.): *The Scientific Foundations of Neurology*, Boston: Blackwell Science, Inc., pp. 461-485, 1996
 10. **Hamilton AJ**: "Linear Accelerator (LINAC)-Based Stereotactic Spinal Radiosurgery," In Gildenberg PL and Tasker RR (Eds.): *Textbook of Stereotactic and Functional Neurosurgery*, McGraw-Hill, pp.857-869, 1998
 11. Rhoton A, Hamilton AJ, Tabor C: "Chiari Malformation and Syringomyelia". In Benzel EC (Ed): *Spine Surgery: Techniques, Complication Avoidance & Management*, New York: Churchill Livingstone, Inc., Vol 2, p 793-812, 1999.
 12. **Hamilton AJ**, Hadley MN: "Spinal Stereotaxis and Radiosurgery". In Benzel EC (ed): *Spine Surgery: Techniques, Complication Avoidance & Management*, New York: Churchill Livingstone, Inc, Vol 2, pp 1233-1248, 1999.
 13. **Hamilton AJ**, Way D: "Extracranial Stereotactic Radiosurgery". In Alexander E and Maciunas RJ (Eds.): *Advanced Neurosurgical Navigation*, New York: Theme, Inc., pp 459-467, 1999
 14. **Hamilton AJ**, Weinand ME, Takacs I: "Neurosurgery" in Jarrell, Carabasi & Radomski (Eds.): *NMS Surgery*, Philadelphia, PA: Lippincott Williams & Wilkins, Inc., pp. 529-560, 2000
 15. **Hamilton AJ**: "Deus Ex Machina: Emerging Medical Technologies and Their Impact on Medical Errors and Litigation," *Defense Research Institute: Medical Liability and Health Care Law*, Chicago, IL" DRI, pp. 91-101, 2007
 16. **Hamilton AJ**, Preface, In Beverley Kane: *The Manual of Medicine and Horsemanship*, Bloomington, IN: Author House, 2007, pp. xiii-xvi

Refereed Journal Articles:

1. Bergland RM, Blume H, Hamilton AJ, Monica P, Wright R, Paterson R (1980). ACTH May Be Transported Directly from the Pituitary to the Brain. *Science*, 217, 541-543.
2. Jalife J, Hamilton AJ, Moe GK (1980). Desensitization of the Cholinergic Receptor at the Sinoatrial Cell of the Kitten. *Amer. J. Physiol.*, 238, 439-448.
3. Jalife J, Hamilton AJ, Lamanna VR, Moe GK (1980). Effects of Current Flow on Pacemaker Activity of the Isolated Kitten Sinoatrial Node. *Amer. J. Physiol.*, 238, 307-316.
4. Carr DB, Bergland RM, Hamilton AJ, Blume H, Kasting N, Arnold M, Martin JB,

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- Rosenblatt M (1982). Endotoxin-Stimulated Opiopeptide Secretion: Two Secretory Pools and Feedback Control In Vivo. *Science*, 217, 845-848.
5. Friedman EW, Hamilton AJ (1983). Polytetrafluoroethylene Grafts in Peripheral Venous Circulation of Rabbits. *Amer. J. Surg.*, 146, 355-359.
 6. **Hamilton AJ**, Black PM, Carr DB (1985). Contrasting Actions of Naloxone in Experimental Spinal Cord and Cerebral Ischemia: a Review. *Neurosurgery*, 17: 845-849.
 7. Carr DB, Jones KJ, Bergland RB, Hamilton AJ, Kasting NW, Fisher JE, Martin JB (1985). Causal links Between Plasma and CSF Endorphin Levels in Stress: Vector-ARMA Analysis. *Peptides*, 6 (Suppl. I): 5-9.
 8. **Hamilton AJ**, Carr DB, LaRovere JM, Black PM (1986). Endotoxic Shock Elicits Greater Endorphin Release Than Hemorrhage. *Circ. Shock*, 19, 47-54.
 9. **Hamilton AJ**, Black PM, Madsen J, Carr DB (1986). Neuropeptide Investigations with an Ovine Surgical Model. *Neurosurgery*, 18, 748-755.
 10. **Hamilton AJ**, Cymerman A, Black PM (1986). High Altitude Cerebral Edema. *Neurosurgery*, 19, 841-849.
 11. **Hamilton AJ**, Trad LA, Cymerman A (1989). Alterations in Central Nervous System Function in Soldiers at High Altitude. *Proc. of 1988 US Army Science Conference*, 1, 2-4.
 12. Bender PR, McCullough RE, McCullough RG, Huang SY, Wagner PD, Cymerman A, Hamilton AJ, Reeves JT (1989). Increased Exercise SaO₂ Independent of Ventilatory Acclimatization at 4300m. *J. Appl. Physiol.*, 66, 2733-2738.
 13. Bender PR, Groves BM, McCullough RE, McCullough RG, Huang SY, Hamilton AJ, Wagner PD, Cymerman A, Reeves JT (1989). Oxygen Transport to Exercising Leg in Chronic Hypoxia. *J. Appl. Physiol.*, 65, 2592-2597.
 14. Kraemer WJ, **Hamilton AJ**, Gordon SE, Trad LA, Reeves JT, Zahn DW, Cymerman A (1991). Plasma Responses of Beta-Endorphin to Acute Hypobaria and High Intensity Exercise in Man. *Aviat. Space & Envir. Med.*, 62:754-758.
 15. **Hamilton AJ**, Trad LA, Cymerman A (1991). Alterations in Human Upper Extremity Motor Function During Acute Exposure to Simulated Altitude. *Aviat. Space & Envir. Med.*, 62, 759-764.
 16. Louis DN, Hamilton AJ, Sobel RA, Ojemann RG (1991). Pseudopsammomatous Meningioma with Elevated Serum Carcinoembryonic Antigen (CEA) -- a True Secretory Meningioma. *J. Neurosurg.*, 74, 129-132.
 17. Meakem TJ, Yoshino MT, **Hamilton AJ**, Carter LP (1992). MRI and CT Demonstration of an Anterior Cervical Enterogenous Cyst: a Case Report. *Am. J. Radiology*, 159, 904.
 18. Frim DM, Barker FG, Poletti CE, **Hamilton AJ** (1992). Post-operative Low-Dose Heparin Decreases Thromboembolic Complications in Neurosurgical Patients. *Neurosurgery*, 30, 830-833.
 19. **Hamilton AJ** (1992). Intracerebral Metastatic Tumors. *Neurosurgical Consultations*, 3 (2), 1-8.
 20. **Hamilton AJ**, Stea B, Lulu B, Shetter A (1992). Interstitial Irradiation and

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- Hyperthermia of Brain Tumors: Some Lessons Learned. *Proceedings of the 6th International Congress on Hyperthermic Oncology*, 1, 397-398.
21. Stea B, Kittleson J, Cassady JR, Hamilton AJ, Guthkelch N, Lulu B, Obbens E, Rossman K, Shapiro W, Shetter A, Cetas T (1992). Treatment of Malignant Gliomas with Interstitial Irradiation and Hyperthermia. *Int. J. Radiat. Oncol. Biol. Phys.*, 24, 657-667.
 22. Bowersock TL, Woodyard L, Hamilton AJ, DeFord JA (1994). Inhibition of Staphylococci by Vancomycin Absorbed on Triiododecylmethyl Ammonium Chloride-Coated Intravenous Catheter. *J. of Controlled Release*, 31, 237-243.
 23. Stea B, Rossman K, Kittleson J, Shetter A, Hamilton AJ, Cassady JR (1994). Interstitial Irradiation Versus Thermoradiotherapy for Supratentorial Malignant Gliomas: a Comparative Survival Analysis. *Int. J. Radiat. Oncol. Biol. Phys.*, 30, 591-600.
 24. Stea B, Kittleson J, Lulu BA, Rossman K, Shetter A, **Hamilton AJ** (1994). Treatment of High Grade Gliomas with Stereotactic Interstitial Irradiation With and Without Hyperthermia. *Acta Neurochir.*, 62, 47-54.
 25. **Hamilton AJ**, Lulu BA, Stea B, Cassady JR (1994). A Technique Employing Silastic Anchoring Sheets for Securing Multiple Percutaneous Catheters for Stereotactic Interstitial Brachytherapy for Intracranial Tumors. *Endocurietherapy/Hyperthermia Oncology* 10, 157-160.
 26. **Hamilton AJ**, Lulu BA, Stea B, Cheng CW, Cassady JR (1995). The Use of Gold Foil Wrapping for the Treatment of the Spinal Cord for Recurrent Tumor Therapy. *Int. J. Rad. Oncol. Biol. Phys.*, 32, 507-511.
 27. **Hamilton AJ**, Lulu BA (1995). Accuracy of a Prototype Device for LINAC-Based Extracranial Stereotactic Radiosurgery. *Acta Neurochir.*, 63, 40-43.
 28. **Hamilton AJ**, Lulu BA, Fosmire H, Stea B, Cassady JR (1995). Preliminary Experience with LINAC-Based Spinal Stereotactic Radiosurgery. *Neurosurgery*, 36, 311-319.
 29. Gannett D, Stea B, Lulu BA, Adair T, Verdi C, **Hamilton AJ** (1995). Stereotactic Radiosurgery as an Adjunct to Surgery and External Beam Radiotherapy in the Treatment of Patients with Malignant Gliomas. *Int. J. Rad. Oncol. Biol. Phys.*, 33, 461-468.
 30. **Hamilton AJ** (1995). Rodeo Sports Related Injuries. *J. Emer. Medical Services*. 24-30.
 31. Sioutos P, Carter LP, Orozco J, Weinand ME, **Hamilton AJ**, Williams FC (1995). Continuous Regional Cerebral Cortical Blood Flow Monitoring in Head Injured Patients. *Neurosurgery*, 36, 943-950.
 32. Sioutos P, **Hamilton AJ**, Narotam PK, Weinand ME (1996). Unusual Early Recurrence of a Cerebellar Pilocytic Astrocytoma Following Complete Surgical Resection: Case Report and Review of the Literature. *J. Neuro-Onc.*, 30, 47-54.
 33. Sioutos P, Carter LP, Weinand ME, **Hamilton AJ**, Nees J, Orozco J (1996). Intraoperative Measurement of Peritumoral Regional Cortical Cerebral Blood Flow. *Oncology Reports*, 3, 593-596.

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34. **Hamilton AJ**, Lulu BA, Fosmire H, Gossett L (1996). LINAC-Based Spinal Stereotactic Radiosurgery. *J. Stereotactic Functional Neurosurgery*, 66, 1-9.
35. **Hamilton AJ**, Orozco J, Narotam P, Bowersock T (1997): Efficacy of Vancomycin/Tri-iododecylmethyl Ammonium Chloride-coated Ventriculostomy Catheters in Reducing Infection. *Neurosurgery*, 40, 1043-1049.
36. Gannett DE, Hill D, **Hamilton AJ**, Stea D (1997). Paclitaxel as a Radiosensitizer Combined with Fractionated Stereotactic Radiotherapy in the Treatment of Recurrent Medulloblastoma. *Am. J. Clinical Oncology*, 20, 233-236.
37. Woo C, Stea B, Lulu B, Hamilton AJ, Cassady JR (1997). The Use of Stereotactic Radiosurgical Boost in the Treatment of Medulloblastomas. *Int. J. Radiat. Oncol. Biol. Phys.*, 37(4),761-4.
38. **Hamilton AJ** (1998). Brief Commentary: On Radiosurgery for Tumors in the Body: Clinical Experience Using a New Method. *J. Radiosurgery*, 1, 75.
39. Fritsch MJ, Leber MJ, Gossett L, Lulu BA, **Hamilton AJ** (1998). Stereotactic Biopsy of Intracranial Brain Lesions. High Diagnostic Yield Without Increased Complications: 65 Consecutive Biopsies with Early Postoperative CT Scans. *J. Stereotact. Funct. Neurosurg.*, 71(1), 36-42.
40. Takacs I, **Hamilton AJ** (1999). Extracranial Stereotactic Radiosurgery: Applications for the Spine and Beyond. *Neurosurg. Clin. North Amer.*, 10(2), 257-70.
41. Takacs I, Kishan A, Deogaonkar M, Way D, Ogden J, Martin J, **Hamilton AJ** (1999). Respiration Induced Target Drift in Spinal Stereotactic Radiosurgery: Evaluation of Skeletal Fixation in a Porcine Model. *J. Stereotactic Functional Neurosurgery*, 73(1), 70-74.
42. Takacs II, **Hamilton AJ**, Lulu B, Fosmire H, Johnson P, Stea B, Saporato S (1999). Frame-Based Stereotactic Spinal Radiosurgery: Experience from the First Nineteen Patients Treated. *J. Stereotact. Funct. Neurosurg.*, 73(1), 69-73.
43. Reyna V, Hamilton AJ (2001). The Importance of Memory in Informed Consent for Surgical Risk. *Medical Decision Making*, 21(2), 73-76.
44. Buckley M & **Hamilton AJ** (2002). What Medical Students Learn from Horses in Improving Doctor-Patient Communication. *J. Alt. & Compl. Medicine Ther.*, 8, 102-107.
45. Zabramski J, Whiting D, Darouiche R, Horner T, Olson J, Robertson C and **Hamilton AJ** (2003). Efficacy of Antimicrobial-Impregnated External Ventricular Drain Catheters: a Prospective, Randomized, Controlled Trial. *J. Neurosurg.*, 98, 725-730.
46. Maresh CM, Kraemer WJ, Judelson DA, VanHeest JL, Trad L, Goetz KL, Cymerman A, Hamilton AJ (2003). The Effects of High Altitude and Water Deprivation on AVP Release in Man. *Journal of Applied Physiology*, 286(1), E20-E24.
47. **Hamilton AJ**, Hamilton, JF (2005). Horses Teach Bedside Manners. *Equine Assisted Growth & Learning Assoc. Newsletter*, 6, 13-18.
48. Feng C, Haniffa H, Rozenblit J, **Hamilton A**, Salkini M (2006). Surgical Training and Performance Assessment Using a Motion Tracking System. *Proc. Int. Med.*

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- Modeling Multiconference*, 1, 647-652.
49. Chiocca EA, Smith KM, McKinney B, Palmer CA, Rosenfeld S, Lillehei K, **Hamilton A**, DeMasters BK, Judy K, Kirn D (2008). A Phase I Trial of Ad.hIFN-Beta Gene Therapy for Glioma. *Mol. Ther.*, 16 (3), 618-26.
 50. Haniffa H, Rozenblit J, Peng J, Hamilton A, Salkini M (2007). Motion Planning System for Minimally Invasive Surgery. *Proceedings of the IEEE: International Conference and Workshops on the Engineering of Computer-Based Systems*, 7, 1-2.
 51. Feng C, Rozenblit J, **Hamilton A** (2007). A Hybrid View in a Laparoscopic Surgery Training System. *Proceedings of the IEEE. International Conference and Workshops on the Engineering of Computer-Based Systems*. 7, 3-7
 52. Krupinski EA, Patel B, Berger W, **Hamilton AJ**, Knapp AE, Becker GJ, Gatenby RA (2009). Assessing Radiology Resident Preparedness to manage IV Contrast Media Reactions Using Simulation Technology. *Proceed. of 17th Annual Medicine Meets Virtual Reality*, 17, 139-141
 53. Feng C, Rozenblit JW, **Hamilton AJ** (2010). A Computerized Assessment to Compare the Impact of Standard, Stereoscopic, and High-Definition Laparoscopic Monitor Displays on Surgical Technique. *Surg. Endosc.*, 24, 2743-2748.
 54. Rojas M, Feng C, Hamilton AJ, Rozenblitt J (2010). Knowledge Elicitation for Performance Assessment in a Computerized Training System, *Applied Soft Computing*, (10), 1-12.

Other Scholarly Contributions:

1. **Hamilton AJ**: Significantly increased sway as measured with a Costlier force platform at simulated altitudes (letter). *Aviat. Space & Envir. Med.* 59:996, 1988
2. **Hamilton AJ**: The endoscopic stylet: technical notes (letter to the editor). *Neurosurgery* 36: 435-436, 1995
3. **Hamilton AJ**: Three Dimensional Stereotactic Volumetric Resection and Stereotactic Craniotomy, *Amer. Assoc. Of Neurological Surgeons Syllabus for Hands-On Workshop*, pp1-20, New Orleans, LA, Nov 17-18, 1995
4. **Hamilton AJ**: Three Dimensional Stereotactic Volumetric Resection and Stereotactic Craniotomy, *Amer. Assoc. Of Neurological Surgeons Revised Syllabus for Hands-On Workshop*, pp1-20, San Francisco, CA, Nov13-16, 1997
5. **Hamilton AJ**: Rationale, Design, and Current Status of a Trial Using Gliadel in Up-Front Management of Malignant Gliomas, *Advances in Glioma Therapy*_1(1):5-8, April 2000
Hamilton AJ: Soul and the Scalpel, *Personal Excellence-The Magazine of Life Leadership*, September 2008, p1-2.

Lay Publications:

1. **Hamilton AJ**: Discovering the Heart of Medicine in an African Jungle, *Harvard Med. Alum. Bull.* 56:10-12, 1982
2. **Hamilton AJ**: Who Shall Live and Who Shall Die, *Newsweek*, March 26, p 15, 1984
3. (Guest Columnist, "My Turn")
4. **Hamilton AJ**, Lutz W: Stereotactic Radiosurgery for the Treatment of Brain Tumors.

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- Clinical Research News for Arizona Physicians* 2, October 1991
5. **Hamilton AJ:** Healing Prayers That Work, *Spirituality & Health*, Mar-Apr 2008
 6. **Hamilton AJ:** Best Practice: Patience, *Spirituality & Health*, Jul-Aug 2008
 7. **Hamilton AJ:** The Still Small Voice, *Harvard Med. Alum. Bull.* 82:46-51, 2008
 8. **Hamilton AJ:** Playing Doctor--Television Physicians Have Devolved From Saints to Sinners--Without Sacrificing Ratings, *Harvard Med. Alumni Bulletin*, 82: 18-23, 2009
 9. **Hamilton AJ:** Script Doctors, *Harvard Med. Alumni Bulletin*, 82: 36-39, 2009
 10. **Hamilton AJ:** Guest Op-Ed column, *Washington Post*. Guest Opinion: "The Spiritual
 11. Struggle Behind Grey's Anatomy," Wednesday, May 13, 2009
 12. **Hamilton AJ:** "The Neurons of Compassion: Have We Found the Neurologic Basis for Empathy & Compassion," *Spirituality & Health*, 12(5): 42-46, 2009
 13. **Hamilton AJ:** "Playing Doctor," *Harvard Medical Alumni Bulletin*, Spring 2009
 14. **Hamilton AJ:** "Four Awakenings to Compassion: Lessons from the Minds of Whales," *Spirituality and Health*, July/August 2010
 15. **Hamilton AJ:** "The Journey of Spiritual Transformation: What You'll Need to Pack," *Science of the Mind*, April 2010
 16. **Hamilton, AJ:** "My Grandfather's Lipizzan," *Haute École*, Lipizzan Association of North American, Vol. 19(1), 4-8, Winter 2010
 17. **Hamilton AJ:** The Ultimate Health Practice, *Spirituality and Health*, Jan-Feb 2011
 18. **Hamilton AJ:** Lasting Happiness: Seven Lasting Steps, *Spirituality & Health*, Nov-Dec 2011

Electronic Media Articles:

1. **Hamilton AJ,** Takacs I: "Extracranial Stereotactic radiosurgery for Spinal Tumors. The University of Arizona Experience", *Your Doctor.Com*, 1-20, June 1, 2000
2. Bell R, **Hamilton AJ:** "The Genetics of Brain Tumors", *Braincare.org*, March, 2001
3. "Bridging Medicine and Spirituality: An Interview with Dr. Allan J. Hamilton," *Super Consciousness: The Voice of Human Potential*, 4 (3), 40-43, 2010
4. Guest, Radio Interview Program (3hrs) with host George Norwell: "The Epidemic of Medical Errors." Nov. 1, 2010
5. Guest, Peoples Pharmacy NPR (1hr) with hosts Terry and Joe Graedon: The Invisible Wounds: The Politics of Traumatic Brain Injury in Returning Vets and NFL players.
6. Moderator, C-Span Broadcast, New Books about the Human Brain 2011-2012, Tucson Festival of Books, Tucson, AZ March 11, 2012
7. Guest, Peoples Pharmacy NPR (1hr) with hosts Terry and Joe Graedon: The Spiritual Imperative in US Healthcare, April, 18, 2012

MEDIA:

Film:

Subject of feature-length documentary film, "Playing with Magic," directed by Emmy-winning film director, Wayne Ewing (Premiere in March 2013)

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Performances:

Featured Speaker: CNS Demonstration Theater, "Intracavitary Chemotherapy", Hynes Auditorium, Boston, MA, November 3, 1999

Institutional Videotapes:

Techniques for Placement of Vagal Nerve Stimulator, 1996
Stereotactic Volumetric Resection of Brain Tumors, 1998
Intracavitary Placement of BCNU Wafers, 1999
New Developments in Brain Cancer Treatment, August 1999
A Guide to Patients with Brain Tumors and Their Families, 1999

CD-ROM:

BCNU Intracavitary Wafer Therapy

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PRESENTATIONS:

1. Refereed Speaker: Opipeptides in Septic Shock. Massachusetts Surgical Society, Fall 1983
2. Invited Speaker: The role of opiopeptides in shock physiology. US Navy Medical Research Center, Bethesda, MD, April 1985
3. Invited Speaker: Biomedical aspects of military operations at high terrestrial elevation. Reserve Components Surgical Associates Day, Bethesda, MD, April 1988
4. Invited Speaker: Alterations in central nervous system function in soldiers exposed to high altitude. US Army National Science Conference, West Point, NY, June 1988
5. Invited Speaker: Neuroradiological and Neurological Changes in Man During Acute Altitude Exposure. Sixth International Hypoxia Symposium, Banff, Canada, Feb 1989
6. Invited Speaker: The Neuro-Oncology of Carotid Body Tumors (chemodectomas). Combined Neurosurgery & Neurology Grand Rounds, The University of Arizona Health Sciences Center, Tucson, AZ, Sept 1990
7. Invited Speaker: Emergent Diagnosis and Treatment of Cervical Spine Trauma. General Surgery Grand Rounds, The University of Arizona Health Sciences Center, Tucson, AZ, Oct 1990
8. Refereed Speaker: Update: Hyperthermia Treatment of Malignant Brain Tumors. Annual Fall Meeting of the Arizona Neurosurgical Society, Westin La Paloma, Tucson, AZ, Nov 1990
9. Refereed Speaker: Interstitial Irradiation and Hyperthermia of Brain Tumors: Some Lessons Learned. Sixth International Congress on Hyperthermic Oncology, Tucson, AZ, April 1991
10. Invited Speaker: Stereotactic Radiosurgery in the Treatment of Tumors of the Central Nervous System. Arizona Cancer Center Tumor Biology Symposium, Tucson, AZ, July 1991
11. Invited Speaker: Shunts and Hydrocephalus in the Pediatric Intensive Care Setting. Pediatric Intensive Care Unit Critical Care Course, The University of Arizona Health Sciences Center, Tucson, AZ, July 1991
12. Invited Speaker: The Clinical Applications of Stereotactic Radiosurgery in the Treatment of CNS Neoplasms. Combined Neurosurgery and Neurology Grand Rounds, The University of Arizona Health Sciences Center, Tucson, AZ, Aug 1991
13. Invited Speaker: Recent Trends in the Management of Cervical Spine Injuries. Second Annual Southwest Regional Trauma Conference, Westin La Paloma Resort, Tucson, AZ, Aug 1991
14. Invited Speaker: Radiosurgery in the Treatment of Malignant Brain Tumors. Tucson Medical Center Neurology Grand Rounds, Tucson, AZ, Sept 1991
15. Invited Speaker: The Applications of Radiosurgery for Benign and Malignant Neoplasms of the Central Nervous System. Department of Internal Medicine Grand Rounds, Tucson Veterans Administration Medical Center, Tucson, AZ, Nov 1991
16. Refereed Speaker: Low Dose Heparin Prophylaxis for Thromboembolic

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- Complications in the Neurosurgical Population. Annual Fall Meeting of the Arizona Neurosurgical Society, Westin La Paloma, Tucson, AZ, Nov 1991
17. Invited Speaker: Chordomas: Diagnosis and Management. Combined Neurosurgery and Neurology Grand Rounds, The University of Arizona Health Sciences Center, Tucson, AZ, Nov 1991
 18. Invited Speaker: New Perspectives on the Pathophysiology, Prevention, and Treatment High Altitude Cerebral Edema. General Surgery Grand Rounds, The University of Arizona Health Sciences Center, Tucson, AZ, Dec 1991
 19. Invited Speaker: Head Trauma in the Neonate & Infant. Pediatric Intensive Care Course, The University of Arizona Health Sciences Center, Tucson, AZ, Jan 1992
 20. Invited Speaker: Hydrocephalus and CSF Shunting in Pediatrics. Pediatric Intensive Care Course, University of Health Sciences Center, Tucson, AZ, Jan 1992
 21. Invited Speaker: The Radiobiological Principles and Clinical Applications of Stereotactic Radiosurgery. Department of Neurology Grand Rounds, Phoenix Veterans Administration Hospital, Phoenix, AZ, Jan 1992
 22. Invited Speaker: Pediatric Grand Rounds Teleconference: Brain Tumors in Children, Tucson AZ, Feb 1992
 23. Refereed Speaker: Stereotactic Interstitial Thermoradiotherapy for Malignant Supratentorial Astrocytomas. Annual meeting of American Association of Neurological Surgeons, San Francisco, CA, April 1992
 24. Invited Speaker: "Dr. Faustus' Aria: Hypothalamic Lesion in an 8 Year Old Child". Clinicopathologic Conference (simultaneous television broadcast to Tucson Medical Center, Kino Hospital, Tucson Veterans Administration Medical Center), Departments of Medicine, Surgery, Anatomy, and Pathology, University Medical Center, Duval Auditorium, April 1992
 25. Refereed Speaker: Morbidity in a Phase I Clinical Trial of Interstitial Thermoradiotherapy for Supratentorial Malignant Astrocytomas. Rocky Mountain Neurosurgical Society, Sedona, AZ, June 1992
 26. Invited Speaker: Update on Management and Treatment of Traumatic Cervical Spinal Cord Injuries. Third Annual Southwest Regional Trauma Conference, La Paloma Resort, Tucson, AZ, July 1992
 27. Invited Speaker: Interpretation of Cranial CT in Trauma Patients for Critical Care Personnel. Third Annual Southwest Regional Trauma Conference, La Paloma Resort, Tucson, AZ, July 1992
 28. Guest Faculty: Intracranial Approaches to Supratentorial and Infratentorial Tumors: Doors to the Heart of the Sacred Temple. Grand Rounds, Department of Radiation Oncology, The University of Arizona, Tucson, AZ, Aug 1992
 29. Invited Speaker: Update on Stereotactic Radiosurgery. Medical Grand Rounds, Holy Cross Hospital, Nogales, AZ, Sept 1992
 30. Refereed Speaker: The Prevalence of CNS Tumors in Cardiac Transplantation Patients. Annual Fall Meeting Arizona Neurosurgical Society, Tucson, AZ, Oct 1992
 31. Refereed Speaker: The Accuracy of a Prototype Extracranial Stereotactic Frame. Annual Fall Meeting Arizona Neurosurgical Society, Tucson, AZ, Oct 1992

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32. Refereed Speaker: Comparison of Interstitial Brachytherapy With and Without Hyperthermia for Supratentorial Malignant Gliomas. Annual Fall Meeting Arizona Neurosurgical Society, Tucson, AZ, Oct 1992
33. Invited Speaker: Accuracy of a Prototype Device for Spinal Stereotactic Radiosurgery. Sixth International Symposium on Stereotactic Radiosurgery, Vienna, Austria, Oct 1992
34. Invited Speaker: Dosimetric Comparison of Gamma Knife and LINAC-based Radiosurgery. Sixth International Symposium on Stereotactic Radiosurgery, Vienna, Austria, Oct 1992
35. Invited Speaker: Treatment of High-Grade Gliomas with Stereotactic Interstitial Irradiation With and Without Hyperthermia. Sixth International Symposium on Stereotactic Radiosurgery, Vienna, Austria, Oct 1992
36. Invited Speaker: Acute Mountain Sickness and the Surgeon. 1992 Annual Meeting of the Arizona Chapter of the American College of Surgeons, Phoenix, AZ, Nov 1992
37. Invited Speaker: Stereotactic Radiosurgery for Brain and Spinal Neoplastic Disease. Combined Neurology/Neurosurgery Grand Rounds, The University of Arizona Health Sciences Center, Tucson, AZ, Mar 1993
38. Invited Speaker: Stereotactic Irradiation of Spinal Neoplasms. Tumor Board Symposium, Arizona Cancer Center, Tucson, AZ, May 1993
39. Invited Speaker: Preliminary Clinical Experience with Spinal Stereotactic Radiosurgery. First Congress of the International Stereotactic Radiosurgery Society, Stockholm Sweden, June 1993
40. Invited Speaker: The Role of Surgery in Neuro-Oncology. Annual meeting of the American Society of Radiation Therapy Technology, Westward Look Resort, Tucson, AZ, June 1993
41. Invited Speaker: Traumatic Injuries in Rodeo Sports. Fourth Annual Southwest Regional Trauma Conference, Tucson, AZ, Aug 1993
42. Invited Speaker: Update on the Management of Spinal Cord Injuries. Fourth Annual Southwest Regional Trauma Conference, Tucson, AZ, Aug 1993
43. Invited Speaker: CT interpretation for Emergency Room and Critical Care Personnel. Fourth Annual Southwest Regional Trauma Conference, Tucson, AZ, Aug 1993
44. Invited Speaker: The Clinical Applications of Stereotactic Radiosurgery for Intracranial Neoplastic Disease. St. Joseph's Medical Center, Tucson, AZ, Sept 1993
45. Invited Speaker: New Techniques and Strategies in Neurosurgery for the Treatment of Neoplastic Disease of the Central Nervous System. Annual meeting of the American Society of Therapeutic Radiation Oncologists, New Orleans, LA, Oct 1993
46. Refereed Speaker: Initial Clinical Experiences with High Precision LINAC-based Stereotactic Radiosurgery of Thoracic and Lumbar Neoplasms. 6th Annual meeting of the Arizona Neurosurgical Society, Tucson, AZ, Oct 1993
47. Refereed Speaker: Comparison of Radiosurgery Versus Interstitial Brachytherapy for "Boost Therapy" for Primary Malignant Gliomas. 6th Annual meeting of the Arizona Neurosurgical Society, Tucson, AZ, Oct 1993

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48. Invited Speaker: High Precision LINAC-based Spinal Stereotactic Radiosurgery. National Stereotactic Users Group Meeting, Dallas, TX, Nov 1993
49. Invited Speaker: Initial Experience with Spinal Stereotactic Radiosurgery. Neurosurgery Grand Rounds, Barrow Neurological Institute & St. Joseph's Hospital, Phoenix, AZ, Nov 1993
50. Invited Speaker: Stereotactic Radiosurgery in the Thoracic Spine. Cardiothoracic Surgery, St. Luke's in The Desert, Tucson, AZ, Dec 1993
51. Invited Speaker: Traumatic Injuries in Rodeo Sports. National Finals Rodeo, Justin Sports Medicine Program, Las Vegas, NV, Dec 1993
52. Invited Speaker: Spinal Stereotactic Technology: Hardware and Software. Spring 1994 National General Electric Research Workstation, Doubletree Hotel, Tucson, AZ, Feb 1994
53. Invited Speaker: Spinal Cord Injuries, Rehabilitation Institute of Tucson, Mar 1994
54. Invited Speaker: Surgical Approaches to the Treatment of Movement Disorders Including Parkinson's Disease, American Parkinson's Disease Association, Tucson AZ, Mar 1994
55. Invited Speaker: Stereotaxis for Brain Tumors, 1994 Spring Meeting of Arizona Physical Therapy Association, Tucson, AZ, May 1994
56. Invited Speaker: Stereotactic Radiosurgery for Tumors of the Spine. 4th Annual UCLA Workshop on Minimally Invasive Therapy of the Brain, Santa Monica, CA, Aug 1994
57. Visiting Professor: University of Heidelberg and National German Cancer Center, Heidelberg, Germany, Oct 1994
58. Invited Speaker: Spinal Stereotactic Radiosurgery. Annual meeting Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons & Congress of Neurological Surgeons, Phoenix, AZ, Feb 1995
59. Invited Guest Speaker: Cosman Presentation: LINAC-based Spinal Stereotactic Radiosurgery. Annual meeting of the American Society for Functional & Stereotactic Neurosurgery, Marina Del Rey, CA, Mar 10, 1995
60. Invited Speaker: Special Topics Breakfast Seminar, Spinal Stereotaxis. Annual meeting of American Association of Neurological Surgeons, Orlando, FL, April 26, 1995
61. Lars Leksell Award Guest of Honor Presentation: First Clinical Application of a Prototype Device for LINAC-based Spinal Stereotactic Radiosurgery, European Congress of Neurosurgery, Berlin, Germany, May 8, 1995
62. Invited Guest Speaker: The Application of Linear Accelerators for Spinal Stereotactic Radiosurgery. Annual Meeting of the Arizona Society of Radiation Technology, Holiday Inn, Tucson, AZ, June 3, 1995
63. Invited Speaker: Workshop on Novel Methods for Stereotactic Radiation Delivery. 2nd Congress of the International Stereotactic Radiosurgery Society, Boston, MA, June 13-17, 1995
64. Guest Faculty Speaker: Spinal Stereotactic Radiosurgery. International Congress on

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- Minimally Invasive Otolaryngology & Neurosurgery, Pittsburgh, PA, June 18, 1995
65. Invited Speaker: Lies, Myths, and Legends in Intracranial Hypertension Management: A Guide to Future Intracranial Fashion Trends. 5th Annual Southwest Regional Trauma Conference, La Paloma Westin Resort, Tucson, AZ, Aug 25, 1995
 66. Invited Speaker: Spinal Stereotactic Radiosurgery. 5th Annual UCLA Workshop on Minimally Invasive Neurosurgery, Los Angeles, CA, Sept 9, 1995
 67. Invited Speaker: Social and Behavioral Sciences Guest Lecture: Lawsuits and the Practice of Medicine, Univ. of Arizona College of Medicine, Sept 14, 1995
 68. Invited Speaker: Spinal Stereotactic Radiosurgery, University Hospitals Consortium Symposium on Stereotactic Radiosurgery, Coral Gables, FL, Oct. 6, 1995
 69. Invited Speaker: Special Afternoon Seminar: Stereotactic Irradiation Techniques. Annual meeting of the Congress of Neurological Surgeons, San Francisco, CA, Oct 15, 1995
 70. Invited Speaker: Stereotactic Volumetric Resection: An Overview. Amer. Assoc. Neurol. Surgeons Workshop on Stereotaxis. New Orleans, LA, Nov 16-18, 1995
 71. Invited Speaker: A Pilot Clinical Study of Spinal Radiosurgery: An Assessment of Survival, Neurological Outcome, Performance Status, and Cost. Annual Meeting of the Society of University Neurosurgeons. Marina Del Rey, CA, Mar 13-16, 1996
 72. Invited Speaker: AANS-Sponsored Practical Clinic: Stereotactic Radiosurgery. Annual Meeting of the Amer. Assoc. of Neurological Surgeons, Minneapolis, MN, April 28, 1996
 73. Oral Presenter: Vancomycin Bonded to Ventriculostomy Catheters Doubles Survival in Rabbit Model of Staphylococcal Ventriculitis. Scientific Session I, Annual Meeting of the Amer. Assoc. of Neurological Surgeons, Minneapolis, MN, April 29, 1996
 74. Invited Speaker: AANS-Sponsored Breakfast Seminar: Stereotactic Spine Surgery. Annual Meeting of the Amer. Assoc. of Neurological Surgeons, Minneapolis, MN, May 1, 1996
 75. Invited Speaker: Spinal Stereotactic Radiosurgery, Western Neurosurgical Society, Lanai, HI, Sept 24, 1996
 76. Guest Faculty: Afternoon course on Stereotactic Radiosurgery, Congress of Neurological Surgeons, Montreal, CAN, Sept 29, 1996
 77. Invited Speaker: Spinal Stereotactic Radiosurgery. Luncheon Seminar: Clinical Applications of Spinal Stereotaxis, Congress of Neurological Surgeons, Montreal, CAN, Oct 2, 1996
 78. Invited Speaker: Lecture to Neurology Post-Graduate Review, "An Overview: The Surgical Prospective in Brain tumor Management". Tucson, AZ, Dec 3, 1996
 79. Invited Participant: Two afternoon practical courses on Spinal Stereotactic Radiosurgery, LINAC Radiosurgery - 1996, Orlando, FL, Dec 12, 1996
 80. Invited Speaker: Frameless Stereotaxy & Image-Guided Surgery, 8th Annual Neurosurgery Symposium, Long Beach, CA, Feb 1, 1997
 81. Invited Speaker & Symposium Moderator: International Stereotactic Users Group Meeting, Ixtapa, MEX, Feb 5-8, 1997

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82. Invited Speaker: Clinical Applications of Stereotactic Radiosurgery, UCLA Minimally Invasive Neurosurgery Conference, Los Angeles, CA, March 15-17, 1997
83. Invited Workshop Leader: Cranial Radiosurgery, 65th Annual Meeting Amer. Assoc. of Neurological Surgeons, Denver, CO, April 13, 1997
84. Invited Speaker: Spinal Radiosurgery, Breakfast Seminar, 65th Annual Meeting Amer. Assoc. of Neurological Surgeons, Denver, CO, April 16, 1997
85. Invited Speaker: Stereotaxis and Computer-Assisted Surgery, Department of Surgery Grand Rounds, University Medical Center, Tucson, AZ, April 30, 1997
86. Invited Speaker, 4th Year Class: "Surviving Internship: Skills & Tactics" Arizona State Teleconference, College of Medicine Learning Resources Center, Tucson, AZ May 5, 1997
87. Invited Speaker: The American Perspective. International Symposium on the Neurosurgical Issues in Stereotactic Radiosurgery, Cannes, France, June 20-24, 1997
88. Refereed Speaker: Spinal Stereotactic Radiosurgery: A Viable Treatment Strategy for Spinal Neoplasms Failing Standard Fractionated Radiotherapy, 3rd Congress of the International Stereotactic Radiosurgery Society, Madrid, Spain, June 24-29, 1997
89. Invited Instructor: Hands-On Workshop in Intracranial Stereotactic Radiosurgery. 3rd Congress of the International Stereotactic Radiosurgery Society, Madrid, Spain, June 24-29, 1997
90. Invited Speaker: Frameless Stereotaxis for the Spine: A Consumers Guide. Congress of Neurological Surgeons 1997 Annual Meeting, New Orleans, LA, Sept 27-Oct 3, 1997
91. Invited Speaker: Stereotactic Radiosurgery. Congress of Neurological Surgeons 1997 Annual Meeting, New Orleans, LA, Sept 27-Oct 3, 1997
92. Invited Faculty: American Assoc. Neurol. Surgeons National Workshop on Stereotactic Neurosurgery: "Computerized Image-Guided Stereotactic Volumetric Resection of Intracranial Tumors", San Francisco, CA, Nov 6-8, 1997
93. Invited Faculty: An Overview of Therapeutic Options for CNS Metastatic Disease: To 'Buzz' or 'Cut'? National LINAC Radiosurgery Meeting. Orlando, FL, Dec 10-14, 1997
94. Invited Faculty: Spinal and Extracranial Radiosurgery. National LINAC Radiosurgery Meeting. Orlando, FL, Dec 10-14, 1997
95. Peer-Reviewed Presenter: Stereotactic Biopsy: Outpatient Procedure? 1998 Lende Neurosurgical Symposium, Snowbird, Utah, Jan 31-Feb 6, 1998
96. Invited Faculty: Experience with Gliadel Polymer Implants in the Treatment of Malignant Astrocytomas. 1998 Annual Cleveland-Mayfield Clinics Winter Neuroscience Symposium. Snowmass, CO, Feb 23-28, 1998
97. Course Director: Wellness Seminar. HealthSouth Rehabilitative Institute of Tucson, Tucson, AZ, March 7-8, 1998
98. Visiting Professor: Surgery Grand Rounds, Good Samaritan Hospital & Phoenix Residency Program. Computer-Guided Surgery. Phoenix, AZ, March 19, 1998
99. Invited Panelist, Breakfast Seminar on New Techniques in Spinal Stereotaxis. Amer. Assoc. Neurologic Surgeons. Philadelphia, PA, April 29, 1997

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100. Visiting Scholar: Inauguration of Radiosurgery Program at the Northern Rocky Mountain Cancer Center & St. Vincent's Hospital. Billings, MT, July 15-18, 1998
101. Symposium Director: Intracavitary BCNU wafer treatment for malignant gliomas: recurrent and up-front treatment. Rocky Mountain Regional Conference. Billings, MT, Aug 20-12, 1998
102. Guest of Honor Speaker: BCNU polymer delivery systems for recurrent and primary gliomas. Annual Houston Neurosurgical Society Dinner. Houston, TX, Sept 24-25, 1998
103. Co-Moderator: Southwest Advisory Group on BCNU Polymer Delivery Systems for Recurrent and Primary Gliomas, Houston Neurosurgical Society. Houston, TX, Sept 24-25, 1998
104. Invited Guest: Intracavitary Chemotherapy and Related Neurosurgical Techniques. Austin, TX, Sept 25, 1998
105. Workshop Faculty: Congress of Neurologic Surgeons Hands-On Workshop on Computer-Guided Microscopes for Stereotactic Volumetric Resection, Annual Meeting Congress of Neurologic Surgeons. Seattle, WA, Oct 5, 1998
106. Symposium Director: Congress of Neurologic Surgeons Symposium on Intracavitary Chemotherapy Polymer Delivery Systems: The New Role of the Neurosurgeon as Chemotherapist. Seattle, WA, Oct 5, 1998
107. Workshop Faculty: Congress of Neurologic Surgeons Hands-On Workshop on Stereotactic Radiosurgery. Annual Meeting Congress of Neurologic Surgeons. Seattle, WA, Oct 6, 1998
108. Open Scientific Session Moderator: Stereotactic Scientific Papers Presentation. Annual Meeting Congress of Neurologic Surgeons. Seattle, WA, Oct 8, 1998
109. Visiting Professor: Intracavitary Chemotherapy for Malignant Gliomas. Neurosurgery Grand Rounds. University of California at Davis, Sacramento CA, Oct 21, 1998
110. Guest Lecturer: Intracavitary BCNU Wafers for Malignant Gliomas. Reno, NV, Oct 22, 1998
111. Guest Lecturer: Stereotactic Neurosurgery and Procedural Coding Issues. American Academy of Procedural Coders. The University Medical Center Duval Auditorium, Tucson, AZ, Oct 31, 1998
112. Guest Lecturer: California Advisory Panel on Intracavitary GLIADEL. San Francisco, CA, Nov 13-15, 1998
113. Snodgrass Visiting Professorship, Department of Surgery, University of Texas Medical Branch at Galveston. 1. (Dept. of Surgery) Computers for Guidance Systems in Surgery"; 2. (Divisions of Neurosurgery & Orthopedics) "Cranial Radiosurgery"; 3. (Oncology & Radiation Oncology) "Intracavitary BCNU Treatment for Malignant Gliomas". Jan 6-8, 1998
114. Visiting Professor, Brooke Army Hospital, "Intracavitary Chemotherapy for Gliomas", San Antonio, TX, Jan 19, 1999
115. Invited Speaker: Grand Rounds Presentation - Good Samaritan Regional Medical Center. Jan 28, 1999

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116. Refereed Oral Presentation: Way D, Gottfried O, Hamilton A: "A Novel Flow Cytometric Method for the Quantitative Analysis of p53 Protein Elevation in Glioblastoma Multiforme" 25th Annual Lende Neurosurgical Symposium, Salt Lake City, UT, Feb 4, 1999
117. Refereed Oral Presentation: Kishan A, Milind D, Takacs S, Martin J, Way D, Hamilton A: "Persistent Intracranial Air After Intracavitary of Gliadel Wafers for Treatment of Malignant Intraparenchymal Tumors" 25th Annual Lende Neurosurgical Symposium, Salt Lake City, UT, Feb 4, 1999
118. Guest Lecturer: Spinal Radiosurgery. Mayfield Clinic-Cleveland Clinic Winter Neuroscience Symposium. Snowmass, CO, Feb 21-26, 1999
119. Guest Lecturer: Treatment Options for High-Grade Gliomas. Kaiser Permanente 10th Annual Neurosurgery Symposium. Newport Beach, CA, March 6, 1999
120. Invited Speaker: 1. "Clinical Applications of Gliadel Wafers for Recurrent and Newly Diagnosed Malignant Gliomas: A Neurosurgical Perspective" and 2. "Intraoperative Handling and Surgical Implantation of Gliadel Wafers". New Advances in the Treatment of Glioblastoma: A Scientific Symposium. Banff, CAN, March 12-14, 1999
121. Invited Speaker: "Intracavitary Chemotherapy for Primary & Recurrent Gliomas", San Jose Coliseum, San Jose, CA, March 17, 1999
122. Invited Faculty: "Computer-guided Stereotaxis in the Spine". The 1999 International Winter Congress of Neurosurgery, Otolaryngology & Minimally Invasive Techniques: Prospects for the 21st Century. Aspen, CO, March 21-26, 1999
123. Invited Faculty: "Stereotactic Volumetric Resection of Gliomas and Intracavitary Chemotherapy" The 1999 International Winter Congress of Neurosurgery, Otolaryngology & Minimally Invasive Techniques: Prospects for the 21st Century. Aspen, CO, March 21-26, 1999
124. Invited Faculty: The Ethics of Health Care and Healing. Withdrawing Life Support. Duval Auditorium, University Medical Center, Tucson, AZ, April 10, 1999
125. Guest Lecturer: Computers & the 21st Century in Surgery. The United Way, Arizona Inn, Tucson, AZ, April 20, 1999
126. Guest Lecturer: A Path to Neurosurgery. Health Care Futures Club, Arizona Cancer Center, Tucson, AZ, April 21, 1999
127. Workshop Faculty: Interactive Image-Guided Neurosurgery. 1999 AANS Annual Meeting. New Orleans, LA. April 24-29, 1999
128. Invited Speaker: Hamilton Ventricular Catheter: Product Overview and Product Features. Cook, Inc. Investigator's Meeting. New Orleans, LA. April 26, 1999
129. Guest Lecturer: 1. Technological Development and Pre-Clinical Studies of GLIADEL Wafers. 2. Neurosurgical Issues in Using the GLIADEL Wafer: Clinical Trials for Recurrent and Primary Malignant Gliomas. GLIADEL Wafer Advisory Board Meeting. Orlando, FL. April 30, 1999
130. Invited Speaker: Oncology Speakers Bureau. Grand Rounds. Adjunct Treatment of Recurrent Glioblastoma Multiforme. Santa Clara Valley Medical Center, CA. May 6, 1999

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131. Invited Faculty: Brain Tumor Treatment: A Neurosurgical Perspective & Associated Reimbursement Issues. CMSA Conference, Minneapolis, MN, June 16, 1999
132. Invited Speaker, MANS Annual Meeting (Michigan Association of Neurological Surgeons): “Adjunct therapy for patients with recurrent glioblastoma multiforme”. Gaylord, MI. June 25, 1999
133. Invited Faculty: Medical Directors and Managed Care Symposium: “Delivering Aggressive Treatment to Glioma Patients & Managed Care Reimbursement”, Los Angeles, CA, August 19, 1999
134. Keynote speaker: Emergency Medical Research Center Commencement, Duval Auditorium, University Medical Center, Tucson, AZ, August 19, 1999
135. Invited Faculty: “New Treatment Options for Malignant Gliomas”, The Shutters Resort at the Beach, Santa Monica, CA August 20, 1999
136. Invited Speaker: Grand Rounds, East Texas Medical Center Neurological Institute: “A Review of New Treatments for Malignant Brain Tumors”, Tyler, TX, September 20-21, 1999
137. Visiting Professor: University of North Carolina, “Intracavitary Chemotherapy for Gliomas”, October 22-23, 1999
138. Featured Speaker, CNS Demonstration Theater: “Intracavitary Chemotherapy”, Hynes Auditorium, Boston, MA, Nov. 3, 1999
139. Visiting Professor: Grand Rounds, Department of Neurosurgery, UCLA, “Aggressive Treatment Options in Glioma Surgery”, November 10, 1999
140. Invited Speaker: United Resource Networks Conference, “New Treatment for Malignant Brain Tumors”, San Francisco, CA, November 11, 1999
141. Chairperson, Symposium on Aggressive Treatment for Malignant Gliomas, The Phoenician Resort, Scottsdale, AZ, November 12-14, 1999
142. Visiting Professor, University of California San Diego, Department of Neurosurgery, “Intracavitary Chemotherapy Options for Gliomas”, November 18, 1999
143. Invited Speaker, Grand Rounds, Deaconess Medical Center, “Intracavitary Chemotherapy for Malignant Brain Tumors”, Spokane, WA. Dec 3, 1999
144. Invited Speaker, Grand Rounds, St. Vincent Hospital, “Research Protocols and Options for Glioma Investigations”, Billings, MT. Dec 6, 1999
145. Invited Speaker, Myasthenia Gravis Support Group, “Mind Body Connection in Healing”, Woods Library, Tucson, Jan 14, 2000
146. Refereed Speaker: 26th Annual Richard Lende Winter Neuroscience Meeting, “Spinal Radiosurgery”, Salt Lake City, UT, Feb 1, 2000
147. Invited Speaker, SAGE Program, University of Arizona, Main Gate Building, “Notions of Death and Dying in Medicine”, Feb 10, 2000
148. Invited Speaker, Gliadel Advisory Board, Los Angeles, CA, Feb 17-18, 2000
149. Refereed Speaker: “Spinal radiosurgery” Mayfield-Cleveland Clinic Winter Neuroscience Symposium, Snowmass, CO Feb 23, 2000
150. Moderator, Speakers Training Symposium, La Cordillera Resort, Vail, CO Feb 25-27, 2000
151. Invited Speaker, “Aggressive Resection Strategies in Gliomas”, Pittsburgh, Union

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- Station, March 14, 2000
152. Invited Speaker, “New Modalities in Gliomas” Myrtle Beach, SC, March 15, 2000
 153. Visiting Professor, University of Miami, Dept. of Neurosurgery, Grand Rounds: “Treatment Strategies for Recurrent and Primary Gliomas” March 30, 2000
 154. Invited Speaker: “Intracavitary Chemotherapy for Gliomas,” Oncology Update, Venetian resort, Las Vegas, NV April 1, 2000
 155. Co-Director: Symposium Research Grant-In-Aid Programs for Glioma Therapy, Hotel Monaco, San Francisco, CA April 7-8, 2000
 156. Symposium Director: “Aggressive Treatment of Gliomas”, San Francisco Museum of Modern Art, April 11, 2000
 157. Featured Speaker: “Avoiding Complications with Intracavitary Chemotherapy Wafers, AANS Annual Convention Demonstration Theater, Moscone Convention Center, San Francisco, CA April 11, 2000
 158. Invited Speaker: “New Therapeutic Advances in the Treatment of Malignant Gliomas” Annual Convention of United Resources Network, Chicago, IL May 3, 2000.
 159. Invited Speaker, Gliadel Advisory Board, Atlanta, GA May 12, 2000
 160. Invited Speaker: “Advances in Brain Tumor Treatment”, CMSA (Case Management Society of America), Tampa, FL June 7-10, 2000
 161. Invited Speaker: “Update on Stereotactic Radiosurgery”, Congress of Neurological Surgeons 2000 Annual Meeting, San Antonio, TX, Sept 23-28, 2000
 162. Participant, Gliadel Clinical Trial Start-Up Meeting, Pivotal Glioma Trial Meeting and the Gliomas Outcomes (GO) Advisory Board Meeting, San Juan, Puerto Rico, November 16-19, 2000
 163. Invited Speaker, Surgical Aspects of Gliadel Implantation, Baltimore, MD January 19, 2001
 164. Refereed Speaker: “Results of the National Gliadel Study: A Study” Mayfield-Cleveland Clinic Winter Neuroscience Symposium, Snowmass, CO March 2, 2001
 165. Invited Speaker: “Neuropathology & Clarification of Tumors” and What do I need to Know about Gliadel - A Neurosurgical Perspective”, Baltimore, MD, April 16-17, 2001
 166. Invited Speaker: Postgraduate Institute for Medicine - “Surgical and Chemotherapeutic Options in the Management of High-Grade Malignant Gliomas”, Washington DC, June 23, 2001
 167. Invited Speaker. “Surgery & the 21st Century”, Surgery Grand Rounds, University of Arizona COM, Tucson, AZ, July 18, 2001
 168. Visiting Professor: “A Phase III Randomized Double-Blind Placebo-Controlled “Frontline” Trial of Intracavitary BCNU for Malignant Gliomas”, USF Grand Rounds at Tampa General Hospital, Tampa, Florida, August 17, 2001
 169. Visiting Professor: Surgical Management of Patients Treated With Gliadel Wafer for Recurrent Glioblastoma Multiforme”, Fairview University Lecture Series, Minneapolis, MN, November 1, 2001
 170. Invited Speaker: “Technical Aspects of Gliadel craniotomy closure and informed

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- consent process of Gliadel craniotomy”, University of Washington School of Medicine Symposium, “Current Therapies for Malignant Gliomas” Seattle, WA, November 3, 2001
171. Refereed Speaker: “A Phase III Randomized Double-Blind Placebo-Controlled Frontline Clinical Trial of Intracavitary Carmustine for the Treatment of Malignant Gliomas”, American Academy of Neurological Surgery, Palm Beach, November 19, 2001
 172. Visiting Professor: “Ten Principles of Treating Malignant Gliomas”, Tulane Neurosurgery Residency, New Orleans, LA, January 18, 2002
 173. Keynote Speaker: “Being Omniscient in a Telepresent World”, Annual Meeting of Association of Surgical Technologists, Sheraton, Tucson AZ, February 9, 2002
 174. Invited Speaker: “Computers and Robots in the Future of Surgery”, University of Arizona COM Mini-Med presentation, Tucson, AZ February 13, 2002
 175. Invited Speaker: “Managed Care and Brain Tumor Patients”, Blue Cross/Blue Shield of Alabama, March 28, 2002
 176. Visiting Professor. “Surgical Management of Patients with Gliadel Wafers for Glioblastoma Multiforme”, Rush Presbyterian Grand Rounds, Chicago, IL April 11, 2002
 177. Invited Speaker. “Enhancing Survival and Quality of Life Outcomes in Patients with Malignant Brain Tumors”, CMSA Annual Conference, Orlando, Florida, June 12, 2002
 178. Refereed Speaker: “Minocycline and Rifampin Impregnated Catheters and CSF-Related Infection-A Study of 252 Patients” Rocky Mountain Neurosurgery Society, Santa Ana Pueblo, NM, June 17, 2002
 179. Invited Speaker. “Future of Surgery: Robotics and Technology” Senior Citizen Young at Heart, Jewish Community Center, Tucson, AZ July 25, 2002
 180. Invited Speaker: “Novel Approaches for the Treatment of High-grade Gliomas”, Austin, TX August 22, 2002
 181. Invited Speaker: ”Robotics & Surgery” Saddle Brooke Rotary Club, Tucson, AZ, September 5, 2002
 182. Refereed Speaker: “A Phase III Randomized Double-Blind Placebo-Controlled “Frontline” Clinical Trial of Intracavitary Carmustine (Gliadel) for the Treatment of Malignant Gliomas”, Western Neurosurgical Society, Victoria, BC, October 14, 2002
 183. Visiting Professor. “Ten Principles of Glioma Management” 3rd Annual Upper Midwest Brain Tumor Symposium, University of Minnesota Medical School, Minneapolis, MN, October 25, 2002
 184. Invited Speaker. “Robotics & the Future of Surgery” University of Arizona COM Neurology & Neurosurgery Grand Rounds, Tucson, AZ, November 15, 2002
 185. Invited Speaker. “Technology in Surgery” Greater Tucson Economic Council, Tucson, AZ, November 15, 2002
 186. Invited Speaker. “Ten Principles of Glioma Management” The Brain Tumor Center of Minnesota, Minneapolis, MN, January 15, 2003
 187. Visiting Professor. “Ten Principles of Malignant Glioma Management” UC San

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- Diego Academy of Neurological Surgeons, San Diego, CA January 29, 2003
188. Refereed Speaker: "Minocycline and Rifampin Impregnated Catheters and CSF-Related Infection-A Study of 252 Patients" 29th Annual Richard Lende Winter Neuroscience Meeting, Snowbird, UT, February 2, 2003
 189. Refereed Speaker: "Minocycline and Rifampin Impregnated Catheters and CSF-Related Infection-A Study of 252 Patients", Mayfield Clinic-Cleveland Clinic Symposium, Snowmass Village, CO, February 25, 2003
 190. Keynote Speaker: "Surgery and Parkinson's Disease", American Parkinson Disease Association, Casino of the Sun Conference Center, Tucson, AZ, March 6, 2003
 191. Invited Speaker: "Surgical Therapy for Essential Tremor", International Essential Tremor Foundation, Tucson, AZ April 3, 2003
 192. Invited Speaker. "Ten Ways We Can Improve Glioma Survival for our Patients", Birmingham, AL, July 30, 2003
 193. Invited Speaker: "Equine-Assisted Therapy and Bedside Communication Skills", Stanford University 12th Annual Trauma Symposium, San Francisco, CA July 12, 2004
 194. Invited Speaker: "Modern Strategies for Glioma Treatment in the 21st Century", Huntington Memorial Hospital, Los Angeles, CA Sept, 2004
 195. Visiting Professor, "What the Olympics Can teach Us About Glioma Therapy" Baylor University, Department of Neurosurgery, Oct 15, 2004
 196. Visiting Professor, Department of Neurosurgery, University of Washington, Seattle, WA, April 5-6, 2005
 197. Visiting Professor, Department of Neurosurgery, Oregon Health Sciences University, Portland, OR, April 7-8, 2005
 198. Invited Speaker. Eden Medical Center, Grand Rounds, "Advances in the Treatment of High Grade Malignant Gliomas", Castro Valley, CA 2005
 199. Invited Speaker, 8th Annual Montana State Oncology Conference, "What Can We Offer Glioma Patients?" Billings Conference Center, Billings, MT. Dec 7, 2006
 200. Invited Speaker. 7th Annual Meeting of Equine Assisted Growth & Learning Assoc.: "Horsemanship & Non-Verbal Communications Skills at the Bedside," Ogden Conference Center, March 8, 2006
 201. Invited Speaker: "Deus Ex Machina: Emerging Medical Technologies and Their Impact on Medical Error and Litigation," Defense Research Institute's Medical Liability and Health Care Law Seminar, Atlanta, GA, March 9, 2007
 202. Invited Speaker: "Can We Keep Up With Technology in Medicine?" Radiology Research Seminar, March 28, 2007
 203. Invited Speaker: HEALS Symposium: "Equine-Assisted Learning in Medical School," Dublin, Ireland, June 5, 2007
 204. Invited Speaker: "Virtually Assisted Surgical Training: Concepts, Foundations, and Sensor-based Techniques," 2nd Annual Symposium Microelectronics Packaging and Test Engineering Council (MEPTEC), Arizona State University, Tempe, Arizona, September 25, 2007
 205. Invited Guest Speaker: "The Value of Chaplaincy in Addressing the Spiritual Needs

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- of the Patient," Multi-Faith Chaplaincy Group, University of Washington Medical Center, Seattle WA, Friday, May 31, 2008
206. Special Honored Guest of the Republic of Ireland, Address to Both Houses of the Irish Parliament, Lough Derg: "What Ireland Can Do to Save Its Horses," Dublin, Ireland, July 21, 2008
 207. Invited Guest Speaker: "How Many Times Did Your Pilot Crash the Plane (or Why Simulation Is Better than Real Life)," Siemens Annual Interventional Radiology Conference, Mandalay Bay, Las Vegas, NV, July 31, 2008
 208. Invited Guest Speaker, "Can We Change The Spiritual Direction of Medicine?" Conference for Writers for Change, Hotel Kabuki, San Francisco, CA August 16, 2008
 208. Invited Guest Speaker, "Spirituality: Why Does It Spook Doctors?" Humanities in Medicine, University of Arizona, Tucson, AZ August 28, 2008
 209. Invited Guest Speaker: "Spirituality and Medical Care," Southern Arizona Psychological Association, Manning House, Tucson, AZ, September 16, 2008
 210. Invited Guest Speaker: "The Force of Spirituality in Facing Illness" Ramtha School of Enlightenment, Yelm, WA (simultaneous translation in six languages), October 3, 2008
 211. Annual Meeting of Michigan Association of Neurological Surgeons, "Spirituality and Neurosurgery," Westin Hotel, Detroit, MI Jan.22, 2009
 212. L. Murray Thomas Visiting Professor, Neurosurgical Rounds, Wayne State University, Detroit Medical Center, "Recent Advances in the Therapy of Malignant Gliomas," Jan. 23, 2009
 213. Keynote Speaker: "Eyes Wide Shut: Why Medicine Needs to Focus on Spirituality," North Carolina International Physicians Roundtable of Lyme Disease, Greenville Convention Center, Greenville, NC, Feb 26, 2009
 214. Invited Speaker: "Teaching Conscience and Character in Medicine," University of Arizona Honors Pre-Medical Class, March 5, 2009
 215. Invited Speaker: "New Technology and the Future of Medicine: Inhuman or Inhumane?" University of Arizona Honors Pre-Medical Class, March 26, 2009
 216. Keynote Address: "Where Can We Meet? The Duality of Science and Spirituality," "Annual Health Fair Unity Church of Tucson, March 29, 2009
 217. Keynote & Opening Address: "Medicine, Media, and Madness: the Interaction Between TV Drama and the Medical Profession 1950's to the Present," 29th Annual Conference of National Association of Medical Communication (AMA), Santa Ana Pueblo, New Mexico, April 1, 2009
 218. Invited Speaker: "From Bedside to Script: the Role of the Medical TV Script Consultant", 29th Annual Conference of National Association of Medical Communication (AMA), Santa Ana Pueblo, New Mexico, April 1, 2009
 219. Invited Speaker: Grand Rounds, "Spinal Epidural Hematomas: Their Presentation, Diagnosis, Management and Surgical Options" University of Arizona Division of Neurosurgery, April 29, 2009.

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220. Invited Speaker: "Holistic Care and Cancer Survivorship" 10th Annual Meeting of the Reimen Cancer Foundation, San Jose, CA, May 29, 2009.
221. Featured Speaker, " Spirituality & Health," Canyon Ranch, Tucson AZ, July 12, 2009
222. Featured Speaker, "Mirror Neurons: the Foundation of Empathy and Love?" Canyon Ranch, Tucson, AZ July 14, 2009
223. Invited Guest Lecturer: "The Human Mirror Neuron System," Brown Mackie College, Department. Of Psychology, Tucson AZ, Sept. 8, 2009.
224. Invited Guest Speaker: Phoenix Campus, Science Expressed Lecture Series, "How Do We Save Medicine in the 21st Century," Bailey Auditorium, ASU downtown campus, Phoenix, AZ. Monday, September 21, 2009
225. Invited Speaker: "From Barn to Bedside: Using Horses to Improve Non-Verbal Communication in the World of Healthcare," Spirituality in Pediatrics Conference, Houston, TX, October 22, 2009
226. Invited Speaker: "The Journey of Spiritual Transformation in the Context of Illness," The Marion Group, St. Thomas Church, Valley View Road, Tucson, AZ, Dec. 3, 2009
227. Keynote Address: "The Spiritual Side of 21st Century Medicine." Phoenix Hadassah Meeting, Fleming's Steak House. Scottsdale, AZ, Feb 18, 2010
228. Invited Speaker: Psychiatry Grand Rounds, "Instilling Hope for Recovery from Mental Illness," Veterans Administration Medical Center, Tucson, AZ, March 12, 2010
229. Invited Speaker: "The Science of Miracles and the Miracles of Science," Tucson Book Festival, Centennial Hall, Tucson, AZ, March 13, 2010
230. Keynote Speaker, "The Spiritual Challenges of Healthcare in the Twenty-First Century," Siemens Annual Innovation Conference, Orlando Florida, Grand Marriott, July 29, 2010
231. Keynote Speaker, "The Ten Secrets They Don't Tell You When You Become A Writer," Southwest Society of Authors Annual Meeting, Radisson Hotel Ballroom, Tucson, AZ. September 25, 2010
232. Invited Speaker, "The Art and Science of Medical Simulation--the Practice of Practicing Neurosurgery," 56th Annual Meeting, Western Neurosurgery Society, Santa Fe, NM, Oct. 9, 2010
233. Invited Speaker: "Twenty-First Century High-Tech Medicine--Part I: Praying for Answers or Answering Our Prayers," Honors Biomedical Engineering Seminar, Dept. of Electrical & Computer Engineering, University of Arizona, Tucson, AZ, Oct 20, 2010
234. Invited Speaker: "Twenty-First Century High-Tech Medicine--Part II: When Can Healthcare Become Inhuman or Inhumane?" Honors Biomedical Engineering Seminar, Dept. of Electrical & Computer Engineering, University of Arizona, Tucson, AZ, Oct 27, 2010.
235. Invited Speaker: "Turning Breakdowns Into Breakthroughs: The Hero's Journey of Spiritual Transformation," Casa De La Luz Annual Meeting Hospice Workers, St. Phillips Church Campus, Nov. 12, 2010

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236. Invited Speaker: "Lessons from Medicine--Learned the Hard Way," Chief Executives Retreat, Canyon Ranch Resort, Tucson, AZ, Jan. 12, 2011
237. Invited Speaker: "Neurochemistry and the Art of the Deal," National Womens Business Association, El Parador, Tucson, AZ, Feb 8, 2011
238. Invited Speaker: "Code Blue: Can Technology Save Us From A Tidal Wave of Medical Errors?" Healthcare Information and Management Systems Society, Elsevier Healthcare, Orlando Convention Center, Orlando, FL, Feb 21, 2011.
239. Keynote Speaker: "From Hospital Bedside to Hollywood Set: The Importance of the Medical Narrative, Elsevier Healthcare, Healthcare Information and Management Systems Society, Orlando Convention Center, Orlando, FL, Feb 21, 2011.
240. Keynote Address: "Ten Spiritual Guidelines That Can Make You a Better Neurosurgeon," Mayfield Clinic-Cleveland Clinic Winter Clinics for Cranial & Spinal Surgery, Aspen, CO, March 1, 2011
241. Invited Speaker: "Building a Simulation Think Tank to Improve Regional Healthcare," Mayfield Clinic-Cleveland Clinic Winter Clinics for Cranial & Spinal Surgery, Aspen, Co, March 4, 2011
242. Invited Speaker: "How Am I Ever Going to Lose Weight If My Brain Makes Me Eat?" Canyon Ranch Resort, Tucson, AZ March 7, 2011
243. Invited Speaker: "The Neurobiology of Empathy, Compassion, and Love," Canyon Ranch Resort, Tucson, AZ, March 14, 2011
244. Invited Guest Speaker: The Doctor Speaks Out: "A Primer for Where Medicine's Going Astray," Saddlebrooke Clubhouse Auditorium, Saddlebrooke, AZ, March 24, 2011
245. Invited Speaker: "Lessons From the Edge: the Spiritual Side of Medicine and the Medical Side of Spirituality," Canyon Ranch Resort, Tucson, AZ, April 5, 2011.
246. Keynote Speaker, "Innovation: the Biologic Efficacy of Magic," 2nd Annual Conference on Medical Innovation, Sheraton Hotel, Washington DC, Oct 6, 2011
247. Invited Speaker, "The Neuroscience of Transcendence," 9th Annual Applied Brilliance Conference, Four Seasons Hotel, Jackson Hole, Wyoming, Oct 13, 2011
248. Invited Speaker, "The Human Mirror Neuron System," Spirituality in Pediatrics 2011, Texas Children's Hospital, Houston, TX, Oct. 28, 2011
249. Keynote Speaker, "Simulation: Training for Moments When Humans Break Down," IIIrd Annual Conference Collaboration Across Borders, El Conquistador Hilton, Tucson, Arizona, Nov. 20, 2011
- 250: Invited Speaker: "What If Medical Mistakes Could Be Taken Back: The Impact of Surgical Decision-Making in the Civil War," Mayfield Clinic-Cleveland Clinic Winter Clinics for Cranial & Spinal Surgery, Aspen, Co, Feb, 22, 2012
251. Visiting Scholar-In-Residence, " The Implications of Right Versus Left Hemispheric Functions," Thacher School, Ojai, CA, April 24, 2012
252. Keynote Speaker, "Answering the Spiritual Itch: the Heroic Journey," Annual Retreat, May 12, 2012
253. Commencement Speaker, "Saving Healthcare, Saving Ourselves," University of Mississippi College of Medicine, Jackson, MI, May 25, 2012

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254. Keynote Speaker: "Finding Flow: the Pursuit of Purpose," Second Annual Medical Innovations Conference, Washington, DC Sheraton, 10 October 2012
255. Invited Speaker, "The Future of Medical Simulation in Distance Learning and Telemedicine, Arizona Legislative Council, Phoenix, AZ, October 17, 2012
256. Invited Speaker and Faculty, "Finding Flow: Searching for the Sweet Spot in Surgery Where Skill Meets Challenge, Mayfield Clinic-Cleveland Clinic Winter Clinics for Cranial & Spinal Surgery, Aspen, CO, February 26, 2013
257. Keynote Address: "Finding Flow States and Making Career Choices." 2013 Health Professions Expo, Duval Auditorium, University of Arizona Medical Center, March 4, 2013
258. Keynote Address: "The Pirates of Creation: Navigating the High Seas in Search of Innovation," First Annual Information Technologies Summit, University of Arizona, Tucson, AZ, July 10, 2013

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GRANTS:

Federal:

1. Principal Investigator & Expedition Leader (30% effort): 1988 U.S. Army Mt. McKinley Medical Research Expedition, U.S. Army Medical Research & Development Command, U.S. Army Research Institute of Environmental Medicine, 1987-1988, \$57,000
2. Co-Investigator (10% effort): Hyperthermia by Surgically Placed Ferromagnetic Implants. NIH #2RO1 CA39468-04 (Tom Cetas, Ph.D., PI). Total 5-year cost 1987-1991, \$1,714,920
3. Co-Investigator (10% effort): Hyperthermia and Radiation in the Treatment of Brain Tumors. American Cancer Society Grant PDT-310 (N. Guthkelch, M.D., PI), 1989-1991, \$300,000
4. Principal Investigator (30% effort): Development of a Prototype Device for Spinal Radiosurgery. American Cancer Society, Institutional Research Grant (IRG#91-080), 1991-1992, \$10,000
5. Principal Investigator (20% effort): Young Clinical Investigator Career Development Award, American Cancer Society (93-021); July 1, 1993-June 30, 1996, \$100,000
6. Co-Investigator (15% effort): Center for Frontier Medicine in Biofield Science. NIH-NCCAM, 09/15/02-04/30/05, \$599,664

State:

1. Principal Investigator (5% effort): Mitogenic Capacity of Aspirates and Washings from Intracranial Malignant Gliomas. Basic Research Support Grant, University of Arizona, 1993-1994, \$5,000
2. Co-Investigator (5% effort): Retinal Pigment Cell Transplantation for Macular Degeneration and Parkinson's Disease. University Physicians/University Medical Center Experimental Research for Clinical Care Program, 2003-2006, \$125,000/yr for 3 years

Industry:

1. Principal Investigator (2% effort): Rodeo Sports Injuries. Educational Grant, Upjohn Co., March 1, 1994-Feb 28, 1994, \$2,500
2. Co-Investigator (2% effort): Efficacy Study of Tirilazad Mesylate in Moderate and Severe Head Injury (Multi-Center Trial). Upjohn Co. (#2700-0017), April 1994-Jan 1995, \$2,500
3. Principal Investigator (10% effort): Prototype Development of Extracranial Stereotactic Radiosurgical Frame. Fischer-Leibinger, Inc., Nov 1, 1993-October 30, 1996, \$317,000
4. Principal Investigator (10% effort): Phase III of Surgically Implanted BCNU-Impregnated Polymers for Recurrent Malignant Astrocytomas. Guilford Pharmaceuticals, June 1996-June 1997, \$45,000
5. Principal Investigator (10% effort): Phase III Randomized Double-Blind Placebo Controlled Trial of Gliadel vs. Polymer Placebo for Treatment of Primary Malignant Astrocytomas. Rhone-Poulenc Rorer Pharmaceuticals, June 1997-June 1999,

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\$175,000

6. Co-Principal Investigator (5% effort): NCP Study protocol E05: Assessment of Vagus Nerve Stimulation (VNS) for Adjunctive Treatment of Epilepsy Patients Who Have Refractory Partial Onset Seizures with Alterations of Consciousness. Multi-center trial; opened Jan 1, 1996-Dec 30, 1997, \$15,000
7. Principal Investigator (5% effort): "Braincare.org": Establishing an Internet-based Portal to Serve Brain Tumor Patients, Families, Physicians and Other Health Care Providers. Rhone-Poulenc-Rorer, Jan 1, 2000-Dec 31, 2002, \$205,000
8. Principal Investigator (5% effort): Prototype Development for Spinal Stereotactic Radiosurgery. Howmedica Leibinger, July 1, 1996 to Jan 2000, \$300,000
9. Principal Investigator (5% effort): Clinical Applications of Frameless Stereotaxy. Zeiss, Inc., September 1, 1996-Aug, 30, 2001, \$326,000
10. Principal Investigator (2% effort): Educational Program on Glioma Therapy and the Intraoperative Use of Intracavitary Polymer Chemotherapy Delivery Systems for Treatment of Malignant Gliomas. Rhone-Polenc-Rorer, July 1999-June 2000, \$7,000
11. Executive Director (10% effort): Education Grant to Arizona Simulation Technology & Education Center, Karl Storz Endoscopy, Brechthold Corporation, Exhibit One/Marconi \$750,000 (2005-2008)
12. Principal Investigator (2% effort): Video series, Direct Laryngoscopy in Emergent Airway Management, Karl Storz Endoscopy of America, Inc. \$50,000 (2011-2013)

Private Foundation:

1. Principal Investigator (5% effort): Prevalence of Mutant p53 Gene in Human Glioma Cell Cultures. The Robb Foundation (Tempe AZ), July 1, 1997-1999, \$1,010
2. Principal Investigator (5% effort): The Use of Artificial Tissues in Medical Simulation, Academy of Medical Education Scholars, Dec 2013-Dec 2014, (\$10,000)

Past Clinical Research Projects:

1. Co-Principal Investigator (with Dr. Baldassarre Stea): "Phase I Study of Small Field Stereotactic External Beam Irradiation for the Treatment of Recurrent Primary Brain Tumors and CNS Metastases," Radiation Therapy Oncology Group (RTOG 90-05), 1991-1992
2. Co-Investigator: Clinical Investigation of High-Dose Prohance in Patients Suspected of Having Cerebral Metastases (Protocol No. 32,521:14); Squibb Diagnostics (funding is given to the Department of Radiology on a per capita basis)
3. Collaborator: Pre-Radiation Chemotherapy for Children with Supratentorial Malignant Gliomas and Poorly Differentiated Embryonal Tumors, Pediatric Oncology Group Protocol #9135, opened June 1992
4. Collaborator: Phase I/II Dose-Escalating Trial of Hyperfractionated Irradiation in the Treatment of Supratentorial Malignant Tumors of Childhood, Pediatric Oncology Group Protocol #9136, opened June 1992
5. Collaborator: Hyperfractionated Irradiation for Posterior Fossa Ependymoma: A Phase II/III, Pediatric Oncology Group Protocol #9132, opened July 1992, closed

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6. Collaborator: Baby POG #2: A Phase III Randomized Trial of Standard Vs. Dose-Intensified Chemotherapy for Children Under 3 Years of Age with CNS Malignancy Treated With or Without Radiation Therapy, Pediatric Oncology Group Protocol #9233/34 Baby POG#2, opened July 1992
7. Co-investigator: A phase III Comparison of Hyperfractionated Radiation Therapy (RT) with BCNU and Conventional RT with BCNU for Supratentorial Malignant Gliomas (RTOG 9006), opened July 1999
8. Collaborator: A Multi-center Open Label, Two Part, Dose Escalation Phase 1 study to Determine the Tolerability of Interferon-Beta Gene Transfer (BG00001) in the Treatment of Recurrent or Progressive Glioblastoma Multiforme. Biogen, December 2001-January 2003, \$250,000

Patented Inventions:

1. Inventor, "Reference Frame for Stereotactic Radiosurgery Using Skeletal Fixation", US Patent # 5,281, 232, Jan, 25, 1994 [FDA approval, October 1998]
2. Co-Inventor, "Computer Assisted Surgical Trainer—Portable Version (CAST-PV)," Provisional Patent Application, filed Feb 24, 2012
