

CURRICULUM VITAE

CLARA RAQUEL EPSTEIN, MD, FICS

Telephone/Fax 303.800.9129
Automated eFax: 303.395.1474

Web Sites: <http://www.braindoctor.net>
<http://www.boulderneurosurgerycenter.com>

CURRICULUM VITAE

CERTIFICATIONS:

Board Certified - The American Board of Clinical Neurological Surgery, 3/28/08
Fellow – International College of Surgeons in Neurological Surgery, 5/30/09
California State Medical License (A76471, Active), 9/7/01 - Present
Colorado State Medical License (40083, Active), 11/7/01 - Present
Michigan State Medical License (4301080999, Expired), 10/17/02 – 1/31/04
New York State Medical License (222152, Expired), 7/20/01 – 7/19/05
Ohio State Medical Training License (57.007974, Expired), 10/24/03 – 6/30/08
Advanced Cardiac Life Support, September 2006
Advanced Trauma Life Support, 11/3/06-11/3/10
US Department of Homeland Security FEMA Emergency Management Institute &
National Incident Management System (NIMS)/Colorado Volunteer Mobilizer (CVM)
for Medical and Public Health Professionals 2/10/10

EDUCATION AND TRAINING

UNDERGRADUATE:

August 1984 Bachelor of Arts in Liberal Arts and Sciences
 Psychology/Pre-Medicine Curriculum
 University of Illinois at Chicago
 Chicago, IL

MEDICAL EDUCATION:

June 1996 Doctor of Medicine
 Finch University of Health Sciences/The Chicago Medical School
 North Chicago, IL

POST GRADUATE MEDICAL EDUCATION:

1996-1997 Resident Physician First Postgraduate Year in General Surgery
 Rotating Neurosurgery Service Intern
 Department of Surgery Residency Program
 University of Southern California Medical Center/Los Angeles
 County Hospital
 Los Angeles, CA

 Worked with Martin Weiss, MD, Steve Giannotta, MD, Michael
 L.J. Apuzzo, MD

POST GRADUATE MEDICAL EDUCATION (Continued):

- 1997-1998 Neurosurgery Resident, Second Year Postdoctoral Physician
Division of Neurosurgery
Loma Linda University Medical Center
Loma Linda, CA
- Worked with Wolff Kirsch, MD, Lloyd Dayes, MD and Shokei Yamada, MD
- 1998-1999 Postdoctoral Research Fellow/Program Development/Web Center
Coordinator Teaching Learning Center
Loma Linda University
Loma Linda, CA
- Worked on fMRI Research Project
- December 1999 Advanced Techniques in Image Guided Brain and Spine
Neurosurgery
The Page and William Black Post-Graduate School
Mount Sinai School of Medicine
New York, NY
- Worked with Isabelle Germano, MD
- 1999-2000 Postdoctoral Stroke and Cerebrovascular Fellow
Clinical Program for Cerebrovascular Disorders
Division of Neurosurgery and Neurology
Mount Sinai Medical Center
New York, NY
- Worked with Stan Tuhim, MD and Joshua Bederson, MD
- 2002 The Chicago Review Course in Neurological Surgery
The Hotel Inter-Continental,
Category I CME Credit 102.5 Hours
February 1-10, 2002
Chicago, IL
- 2002 The VI Detroit Neurosurgery Symposium: The Renaissance of
Neurosurgery
DMC/Wayne State University School of Medicine
Category I Credit 13 Hours
September 13-14, 2002
Detroit, MI

POST GRADUATE MEDICAL EDUCATION (Continued):

2002-2003 Accredited Postdoctoral Clinical Stereotactic Radiosurgery Fellow
Department of Neurosurgery
Wayne State University School of Medicine
Harper Hospital/Karmanos Cancer Institute/DMC
Detroit, MI

Worked with Lucia J. Zamorano, MD., Dr. med

2002-2003 PhD/Certification Program Supercomputing and Computer
Assisted Surgery
NSF-IGERT Integrative Graduate Education and Research
Traineeship Scholarship Recipient
Wayne State University
College of Engineering and Division of Computer Assisted
Surgery
Detroit, MI

Worked with Lucia J. Zamorano, MD., Dr. med

2003 The Chicago Review Course in Neurological Surgery
The Hotel Inter-Continental,
Category I CME Credit 100 Hours
January 31-February 9, 2003
Chicago, IL

2003-2007 Neurosurgery Resident, Postdoctoral Physician
NS3-NS6 (Clinical Neurosurgery, Clinical Research and 3 months
of Interventional Neuroradiology, Clinical Neurology)
Department of Neurological Surgery
Ohio State University Medical Center
Columbus, OH

Worked with Mario Ammirati, MD, MBA (Mentor), Dongwoo
John Chang, MD, FRCS(C), E. Antonio Chiocca, MD, PhD, and
Gregory A. Christoforidis, MD

2005-2006 Neurosurgery Resident, Postdoctoral Physician
Department of Neurological Surgery
Riverside Methodist Hospital
Columbus, OH

Worked with Mark A. Hnilica, MD, Robert J. Gewirtz, MD,
Rebecca P. Brightman, MD, Ward P. Buster, DO, Sigurdur A.
Stephensen, MD, Ronald F. Budzik, Jr., MD

POST GRADUATE MEDICAL EDUCATION (Continued):

- 2007 Musculoskeletal Education and Research Center National Keystone Forum, "*A Comprehensive Spine Review for Residents & Fellows*", Chairmen Alexander R. Vaccaro, MD and Harry N. Herkowitz, MD
May 11-12, 2007, White Sulphur Springs, WV
- 2008 Aging and Complex Spine Summit - Highlights of current and emerging technologies and techniques in:
• Vertebral Body Augmentation
• Complex Adult Deformity
• Simple revision strategies for complex problems
October 2 - 4, 2008, San Diego, California
- 2008 Adult Spinal Deformity Tutorial – Focused on techniques and instrumentation for the treatment of spinal deformities. The two-day, comprehensive tutorial addressed the challenges of the adult spine through Didactic Sessions, Case Reviews, Live Surgical Observation and Hands-on Cadaver Surgical Labs, including:
• Three-dimensional correction techniques: Reduction, translation, and de-rotation
• Fixation techniques in the adult spine
• Posterior Osteotomies
November 13 - 14, 2008
Spinemark Lab and Medical Conference Center, Dallas/Plano, Texas
- 2008 TranS1® AxiaLIF® 2L Surgical Procedure Certification
November 14-15, 2008
The Center for Surgical Innovation at The University of Colorado, Denver Health Sciences Center, Research Complex 1 North 12800 East 19th Ave, Aurora, Colorado 80045.
- 2009 Association of Presacral Spine Surgeons Regional Meeting, Saturday February 21, 2009, Hotel Park City, Park City UT
- 2009 Advanced Deformity Hands-on Practical Lab, March 20-21, 2009, Las Vegas, NV.
- 2009 A "Foundation of Progress" Event - Boston Scientific Neuromodulation For Neurosurgeons and Orthopedic Spine Surgeons, Peer To Peer Intra-operative Training and Physician Training Cadaveric Lab April 16th-18th, 2009
Brookhaven Memorial Hospital and Medical Center, 101 Hospital Road, Patchogue, New York
Faculty - Jeffrey Epstein, MD

POST GRADUATE MEDICAL EDUCATION (Continued):

- 2009 Invited Guest Speaker, 71st United States Section of the International College of Surgeons Annual Meeting and 41st North American Federation Congress and Joint Annual Meetings of the Canadian, Mexican and United States Sections of the International College of Surgeons, May 27-30, 2009, in Montreal, Quebec, Canada
- 2009 Minimally Invasive Spine Surgery/VBA and Hands-on Practical Lab, June 18-19, 2009, Chicago, IL
Course Chairman – Richard Fessler, MD & Kornelis Poelstra, MD, PhD
- 2009 Advanced Techniques in Minimally Invasive Spine Surgery, July 10, 2009, Seattle, Washington
Course Chairman – Reginald Knight, MD
- 2009 Invited Guest Speaker, XX Congreso Mexicano de Cirugía Neurológica/XX Mexican Congress of Neurological Surgery, Cancun, Mexico, July 19-24, 2009.
- 2009 Complex Spine Solutions and Hands-on Practical Lab, July 23-24, Las Vegas, NV
Course Chairman – Henry E. Aryan, MD
- 2009 Techniques in Occipito-Cervico-Thoracic Reconstruction and Hands-on Practical Lab, August 28, 2009, Baltimore, MD
Course Chairman – John Carbone, MD
- 2009 The First Annual Women in Spine Meeting entitled First Annual Symposium in Spine Surgery: Changing Landscapes and Hands-on Practical Lab, Science Care Center, Las Vegas, NV, December 3-4, 2009
Course Chairpersons – Michele Johnson, MD, Lauren Schwartz, MD
- 2009 Marquis Visit Program, Minimally Invasive Spine Course, MaXcess®, XLIF®, XLPT™ Lateral Plate Systems & Biologics, Surgical Technique, Clinical Overview and Hands-on Cadaveric Lab, La Jolla, CA, December 18, 2009
Faculty – Antoine Tohmeh, MD
- 2010 Association of Presacral Spine Surgeons, Problems and Solutions in Adult Scoliosis Treatment: The Role of Lumbosacral Fixation Saturday, January 16, 2010, New York, NY
Course Chairmen - Oheneba Boachie-Adjei, MD, Neel Anand, MD

POST GRADUATE MEDICAL EDUCATION (Continued):

- 2010 APSS Cadaver-based Deformity AxiaLIF Training
Saturday, February 6, 2010
Bioskills Education Center, Long Island Jewish Hospital, New York, NY
Course Chairmen: Jeff Coe, MD, Josue Gabriel, MD
- 2010 MIS Clinical Education Program and Hands-on Cadaveric Lab for MIS Spinal Fixation Systems - the Breckenridge™ Oblique MIS TLIF, Telluride™ MIS and Aspen™ by LANX, Inc.
Encore Hotel, Las Vegas, NV, February 20, 2010
Faculty - Jeffrey Oppenheim, MD, Jeffrey Henn, MD, Michael Liu, MD

TEACHING POSITIONS:

- 2003-2007 Clinical Instructor, The Ohio State University Medical Center, Department of Neurological Surgery - Instruction of neurosurgery residents, medical students, nurse clinicians and rotating surgical interns
- 2006-7 Clinical Instructor, The Ohio State University Medical Center, Department of Neurological Surgery, Skull Base Clinic with Mario Ammirati, MD, MBA – Instruction of medical students and nurse clinician
- Fall 2006 Preceptor, The Ohio State University Medical Center, Department of Neuroscience, College of Medicine, NS725 Structure and Function of the Nervous System - Graduate Neuroanatomy Course and Dissection Instruction
- Winter/Spring 2007 Preceptor, The Ohio State University Medical Center, Department of Neuroscience, College of Medicine, Medical Student Neuroanatomy Course and Dissection Instruction
- Winter/Spring 2005 Clinical Instructor, OSUMC/ Riverside Methodist Hospital, Department of Neurological Surgery - Instruction of rotating residents, medical students, physician assistants and nurse practitioners.
- 2002-2003 Clinical Instructor/Stereotactic Radiosurgery Fellow, Wayne State University School of Medicine, Harper Hospital/Karmanos Cancer Institute/DMC, Detroit, MI Department of Neurosurgery - Instruction of neurosurgery & neurology residents and fellows, medical students, physician assistants, & nurse clinicians

TEACHING POSITIONS (Continued):

- 1999-2000 Clinical Instructor/Postdoctoral Stroke and Cerebrovascular Fellow, Clinical Program for Cerebrovascular Disorders Division of Neurosurgery and Neurology, Mount Sinai Medical Center, New York, NY - Instruction of neurosurgery & neurology residents, medical students, nurse clinicians
- 1997-9 Clinical Instructor, Loma Linda University Medical Center, Division of Neurosurgery - Instruction of neurosurgery & neurology residents and fellows, medical students, physician assistants, & nurse clinicians
- 1996-7 Clinical Instructor, University of Southern California Medical Center, Los Angeles, CA - Instruction of residents, medical students, physician assistants, & nurse clinicians
- 1992-3 Medical Informatics Coordinator/Teaching Assistant/Technical Team Member, FUHS/The Chicago Medical School, Department of MIS and Medicine, Cook County Hospital, Adult Emergency Services, Chicago, IL, Norwalk Hospital (Yale College of Medicine Affiliated Hospital), Norwalk, CT, North Chicago VA Medical Center, North Chicago, IL. - Instruction of medical students, faculty and staff
- 1990-91 Alivio Medical Center, Chicago, IL-Volunteer/Organized NBME Part I Board Review, Taught basic medical sciences to medical students and foreign licensed physicians.

BUSINESS ACTIVITIES:

- 2009-Present CEO/President, Boulder Neurosurgery Center, LLC
- 2009-Present CEO/President & Founder, Boulder Neurosurgery Foundation, Inc.
- 2008-Present Board of Directors, The American Board of Neurological and Orthopaedic Surgeons Board of Directors
- 2007-Present Consulting and Development of Novel Technologies as Applied to Neurosurgery including Neuro-robotics, Minimally Invasive Spine and Cranial Applications, Neuro-endoscopy, Stereotaxis & Neuro-imaging, and Neuroinformatics
- 2002-Present CEO/President, Clara Raquel Epstein, MD, P.C.
- 1999-Present CEO/President, BrainBiz.Org Inc., Medical Web Development and Medical Internet Consulting

BUSINESS ACTIVITIES (Continued):

- 1992-93 Medical Informatics Coordinator/Teaching Assistant/Technical Team Member, FUHS/The Chicago Medical School, Department of MIS and Medicine. Participated in establishing CMS/Norwalk Hospital Informatics Program (affiliated with Yale College of Medicine). Coordinated chest pain studies utilizing EMR software developed by CMS, at remote sites including Cook County Hospital, Adult Emergency Services, Chicago, IL, Norwalk Hospital, Norwalk, CT, North Chicago VA Medical Center, North Chicago, IL. EMR was developed further to become what is known and marketed today as HealthPoint ACS™. Worked with David Trace, MD and Frank Naeymi-Rad, PhD.
- 1984-85 Administrator, Anchor H.M.O, Rush Presbyterian St. Luke's Hospital, Skokie, IL-Helped establish new satellite office, responsibilities included patient and physician contact, appointments, scheduling, processing patient's charts and lab work, verification of insurance benefits.
- 1983-84 Hospital Admissions and Emergency Department Registrar, Lutheran General Hospital, Park Ridge, IL- Responsibilities included assisting physicians in obtaining historical data from patients, assistance in emergency examinations and treatment, verification of insurance benefits.

AWARDS AND HONORS:

1. Dean's List, University of Illinois at Chicago, Chicago, IL, 1980-84
2. James Scholar, University of Illinois at Chicago, Chicago, IL, 1980-84
3. Phi Delta Epsilon Medical Fraternity, Since 9/87
4. Nominated as Class of 1995 Representative for the Department of Medicine, Undergraduate Education Committee, 1993-94
5. Nominated as Vice President, Academic Affairs Latino Midwest Medical Student Association, 1993-94
6. Selected as Ex Officio Member for Department of Medicine, Undergraduate Education Committee, 1994-1996
7. Board of Executives, Scholarship Committee, Chaim Weizman Community Day School, Pasadena, CA, 1996-1997
8. Nominated to the Brain Death Committee, Loma Linda University, 1997-1998
9. Nominated to Board of Directors of the California Association of Neurological Surgeons, Inc., Resident Member, 1997-99
10. Nominated to the California Medical Association, Committee for Women Physicians by the California Association of Neurological Surgeons, Inc. 1998
11. Nominated as Co-Chairperson for Committee for Childcare Project American Association of Neurological Surgeons, Young Neurosurgeon's Committee, 1998-1999

AWARDS AND HONORS (Continued):

12. 1st Neurosurgical Resident Nominated as California State Delegate (Alternate) to Council of State Neurosurgical Societies of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons (10/98)
13. 1st Neurosurgical Resident Representative to the Council of State Neurosurgical Societies of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons, Medical Legal Committee (10/2/98)
14. 1st Neurosurgical Resident Representative to the Council of State Neurosurgical Societies of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons, Southwest Quadrant State Representative, Young Physicians Committee (10/2/98)
15. Nominated to Telecommunications Committee of California Association of Neurological Surgeons, Inc. 1998-1999
16. Nominated to Membership Committee of California Association of Neurological Surgeons, Inc. 1998-1999
17. Sergeant at Arms, CNS, 1999-2000
18. Marshal's Subcommittee, AANS 1998-2000
19. Co-Chairperson/Founder for First Annual Silent Auction to benefit the Neurosurgery Research and Education Foundation, American Association of Neurological Surgeons, Young Neurosurgeons Committee, April 1999
20. Coach for Odyssey of the Mind 1999, Redlands Unified School District, Kimberly School, Redlands, CA
21. Nominated as Liaison for Women in Neurosurgery at the Council of State Neurosurgical Societies of the American Association of Neurological Surgeons (4/99)
22. Invited Honorary Guest Speaker, CAHMCPS/CMS Alumni Honorarium Grand Rounds Presentation. **Epstein CR:** "My Patient: Glioblastoma multiforme and A Comprehensive Overview of the Malignant Gliomas and Their Treatment" (Slide/Lecture Presentation), FUHS/The Chicago Medical School, Grand Rounds. July 16, 1999, North Chicago, IL.
23. Nominated as Co-Chairperson for 2000 Annual AANS/Young Neurosurgeons' Luncheon honoring Volker K.H. Sonntag, MD, American Association of Neurological Surgeons, Young Neurosurgeons Committee, San Francisco, CA
24. Nominated as Co-Chairperson for Second Annual Silent Auction to benefit the Neurosurgery Research and Education Foundation, American Association of Neurological Surgeons, Young Neurosurgeons Committee, San Francisco, CA April 2000
25. Nominated as Member of Physician Website Development Committee, Mount Sinai-NYU Health, NY 1999-2001
26. Selected as Editor for Neurosurgery://On-Call® Resident Corner and Young Neurosurgeons Web Pages, 1999-Present
27. Selected as Listserv Administrator for Neurosurgery://On-Call® Young Neurosurgeons Listserv Administrator, August 2001-Present
28. Nominated as Editor/Liaison for Women in Neurosurgery (WINS) Editorial Board and Web Development, October 2001

AWARDS AND HONORS (Continued):

29. Nominated as Liason for American Society for Stereotactic and Functional Neurosurgery, World Society for Stereotactic and Functional Neurosurgery, September 2002-Present
30. NSF-IGERT Integrative Graduate Education and Research Traineeship Scholarship Recipient, Wayne State University, College of Engineering and Division of Computer Assisted Surgery, Detroit, MI. Research Project Entitled “Web-based Teaching Tools with Wireless Access for Computer Assisted Neurosurgery and Radiosurgery”. Research Advisors: Lucia Zamorano, MD and Vipin Chaudhary, PhD. 2002-2003. \$33,297
31. Awarded the Ohio State University Annual Research Award and Traveling Scholarship for **Epstein CR**, McGregor JM, Yang M, Abduljalil A, Chaudhury AR, Robitaille PM, Christoforidis GA. “Correlation of Microvascularity within Human Gliomas Identified at 8-Tesla, Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies”, Ohio State University Medical Center, Columbus, Ohio. Poster, April 1, 2004.
32. Selected as Steering Committee Member of American Medical Association/Minority Actions Consortium, Hispanic Physician Outreach Initiative. June, 2006. AMA Annual Meeting, Hilton Chicago, June 12, 2006.
33. Invited Guest Speaker, “La Mujer en la Neurocirugia del Siglo XXI”, Nineteenth Congress of the Mexican Society of Neurological Surgery (XIX Congreso Mexicano de Cirugia Neurologica), Mexico City, Mexico, July 12, 2007.
34. “GUIDE TO AMERICA’S TOP SURGEONS” 2007 - 2009 Editions, by the Consumers’ Research Council of America
35. Nominated for upcoming election of Chairperson and At-Large Delegate for the Minority Affairs Consortium (MAC) Governing Council of the American Medical Association; Term June 2008-June 2110.
36. Elected to The American Board of Neurological and Orthopaedic Surgeons Board of Directors, 32nd Annual Scientific Meeting, June 6-7, 2008, Reno, NV.
37. President-Elect 2011, The American Board of Neurological and Orthopaedic Surgeons Board of Directors, 32nd Annual Scientific Meeting, June 6-7, 2008, Reno, NV.
38. Appointed to the Scientific Organizing Committee of the 33rd Annual Scientific Meeting of the AANOS at The American Board of Neurological and Orthopaedic Surgeons Board of Directors, 32nd Annual Scientific Meeting, June 6-7, 2008, Reno, NV.
39. Appointed Executive Committee Secretary, The American Board of Neurological and Orthopaedic Surgeons Board of Directors, 32nd Annual Scientific Meeting, June 6-7, 2008, Reno, NV.
40. Invited Guest Speaker, 71st United States Section of the International College of Surgeons Annual Meeting and 41st North American Federation Congress and Joint Annual Meetings of the Canadian, Mexican and United States Sections of the International College of Surgeons, May 27-30, 2009, in Montreal, Quebec, Canada

AWARDS AND HONORS (Continued):

41. Induction into the International College of Surgeons, Commencement at the 71st Annual Convocation and Presidential Recognition Ceremony, at the 71st Annual United States Section of the International College of Surgeons Annual Meeting and 41st North American Federation Congress and Joint Annual Meetings of the Canadian, Mexican and United States Sections of the International College of Surgeons, May 30, 2009, in Montreal, Quebec, Canada
42. Appointed Chair of the Division of Neurological Surgery of the Council of Surgical Specialty Group Chairs, International College of Surgeons, United States Section, at the 71st Annual United States Section of the International College of Surgeons Annual Meeting, May, 2009, Montreal, Quebec, Canada
43. Invited Guest Speaker, XX Congreso Mexicano de Cirugía Neurológica/XX Mexican Congress of Neurological Surgery, Cancun, Mexico, July 19-24, 2009.
44. Appointed Boulder County Medical Society Delegate to the Colorado Medical Society, 2009 Annual Meeting of the House of Delegates of the Colorado Medical Society, Beaver Run Resort & Conference Center, Breckenridge, CO, September 11-13, 2009.
45. Appointed to Advisory Board for ONE Freedom, Inc. - 501(c)(3), February 21, 2010.

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES:

American Academy of Neurological and Orthopaedic Surgeons
American Medical Association
American Society for Stereotactic and Functional Neurosurgery
Boulder County Medical Society
Chicago Area Health and Medical Careers Program, IIT, Chicago, IL
Colorado Medical Society
Foundation for International Education in Neurological Surgery
HOLA, Health Organization of Latin Americans, UIC, Chicago, IL
International College of Surgeons, Neurological Surgery, United States Section
Latino Midwest Medical Student Association/ La Rama
Minority Affairs Consortium of the American Medical Association
Neurocirujanas
North American Skull Base Society, Active Member
Steering Committee Member of AMA/MAC, Hispanic Physician Outreach Initiative
Stereotactic & Functional Section of the AANS/CNS
Women in Neurosurgery, American Association of Neurological Surgeons
World Federation of Neurological Surgeons
World Society for Stereotactic and Functional Neurosurgery

PUBLICATIONS

Papers In Preparation:

1. **Epstein CR**, Ammirati M. Posterior Fossa Neurocysticercosis within Hemangioblastoma Lesion: Case Report.
2. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis: Technical Case Report and Literature Review.
3. Chang DJ, **Epstein CR**. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review.
4. **Epstein CR**, Chang DJ. Skull Base Extension of Mucoepidermoid Carcinoma and a Concurrent AVM: Case Report and Literature Review.
5. Gabriel JP, **Epstein CR**, Perry CR, Yeen WC, Story E, Smith TG, Ammirati M, Yue JJ. Hangman's Fracture: Successful Conservative Treatment for Type I, Type II and Type IIA Fractures Using Rigid Immobilization.
6. Gabriel JP, **Epstein CR**, Pirnia N, Perry CR, Ammirati M, Yue JJ. Manubriosternal Joint Dislocation During Early Activity After T11 Paraplegia: A Case Report and Literature Review
7. **Epstein CR**, Yang M, Chang DJ, Christoforidis GA, Chaudhury AR, Robitaille PM. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvascularity Within Human Gliomas Using Neuronavigation.
8. Gabriel JP, **Epstein CR**. Evaluation and Treatment of Lumbar/Sacral Spine Trauma. Book Chapter for A Comprehensive Spine Review for Residents & Fellows by Alexander R. Vaccaro, MD
9. Gabriel JP, **Epstein CR**. Kyphoplasty and Vertebroplasty. Book Chapter for A Comprehensive Spine Review for Residents & Fellows by Alexander R. Vaccaro, MD

Abstracts/Publications:

1. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis: Technical Case Report and Literature Review. Spine Arthroplasty Society Asia Pacific Conference, January 16-18, 2008, Seoul, Korea. (Abstract Accepted/Poster Presentation)
2. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. 2007 AANS/CNS Section on Pediatric Neurological Surgery, November 26 – December 1, 2007, Miami, FL. (Abstract Accepted/e-Poster).
3. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. the 12th Asian- Australian Society of Neurological Surgeons World Federation of Neurosurgical Societies Interim Meeting, November 18-21, 2007, Nagoya, Japan (Abstract Published in Proceedings/Oral Presentation).

PUBLICATIONS

Abstracts/Publications (Continued):

4. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis: Technical Case Report and Literature Review. Congress of Neurological Surgeons 2007 Annual Meeting, September 15-20, 2007, San Diego, CA. (Abstract Published in Proceedings/e-Poster Presentation).
5. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis: Technical Case Report and Literature Review. XIX Congreso Mexicano de Cirugía Neurológica. July 6-13, 2007, Mexico City, Mexico. (Abstract Published in Proceedings/Oral Presentation).
6. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. XIX Congreso Mexicano de Cirugía Neurológica. July 6-13, 2007, Mexico City, Mexico. (Abstract Published in Proceedings/Oral and Poster Presentation).
7. Gabriel JP, **Epstein CR**, Pirnia N, Perry CR, Ammirati M, Yue JJ. Hangman's Fracture: Successful Conservative Treatment for Type I, Type II and Type IIA Fractures Using Rigid Immobilization. XIX Congreso Mexicano de Cirugía Neurológica. July 6-13, 2007, Mexico City, Mexico. (Abstract Published in Proceedings/Oral Presentation).
8. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis. 57th Annual Congress of Neurological Surgeons Meeting. September, 15-20, 2007, San Diego, CA. (Abstract Accepted/Oral Presentation).
9. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. 18th Annual North American Skull Base Society Meeting; May 24-27, 2007, Chicago, IL. (Poster Presentation).
10. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. 3rd International Symposium on Microneurosurgical Anatomy, November 5-8, 2006, Antalya, Turkey. (Poster Presentation).
11. **Epstein CR**, McGregor JM, Yang M, Chang DJ, Christoforidis GA, Robitaille PM. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvasculature Within Human Gliomas Using Neuronavigation. World Federation of Neurological Surgeons 1st Annual Levantine Forum. November 7-9, 2004, Palace Hotel Congress Center, Bari, Italy. (Oral and Poster Presentation).
12. **Epstein CR**, McGregor JM, Yang M, Chang DJ, Christoforidis GA, Robitaille PM. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvasculature Within Human Gliomas Using Neuronavigation. 54th Annual Congress of Neurological Surgeons Meeting. October, 16-21, 2004, San Francisco, CA. (Poster Presentation).

PUBLICATIONS

Abstracts/Publications (Continued):

13. **Epstein CR**, McGregor JM, Yang M, Abduljalil A, Chaudhury AR, Robitaille PM, Christoforidis GA. Correlation of Microvascularity within Human Gliomas Identified at 8-Tesla Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies. 16th Congress of the European Society for Stereotactic and Functional Neurosurgery. June 23-26, 2004, Vienna, Austria. (Oral Presentation).
14. **Epstein CR**, McGregor JM, Yang M, Abduljalil A, Chaudhury AR, Robitaille PM, Christoforidis GA. Correlation of Microvascularity within Human Gliomas Identified at 8-Tesla Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies. 16th Congress of the European Society for Stereotactic and Functional Neurosurgery. *Acta Neurochirurgica The European Journal of Neurosurgery*. Vol 146, No. 8, July 2004.
15. **Epstein CR**, McGregor JM, Yang M, Abduljalil A, Chaudhury AR, Robitaille PM, Christoforidis GA. Correlation of Microvascularity within Human Gliomas Identified at 8-Tesla Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies. Poster presented and awarded The Ohio State University Annual Research Day Award and Traveling Scholarship, April 1, 2004.
16. **Epstein CR**, Zamorano L, Kim H, Diaz F, Levin K, Fontanesi J, Ducharme E. Radiosurgical Treatment of Incompletely Obliterated AVM After LINAC and Gamma Knife Surgery. American Society for Stereotactic and Functional Neurosurgery Quadrennial Meeting. May 18-21, 2003, New York, NY. (Poster Presentation).
17. **Epstein CR**, Zamorano L. Web-based Teaching Tools with Wireless Access for Computer Assisted Neurosurgery and Radiosurgery. Fourth Annual Teaching, Learning, and Technology Round Table Conference. Wayne State University Medical Campus, March 6, 2003, Detroit, MI. (Oral Presentation).
18. **Epstein CR**. Professional Development in Neurological Surgery. *American Association of Neurological Surgeons Young Neurosurgeons' News*. (6): Article 6, Spring, 2002.
19. **Epstein CR**. Young Neurosurgeons Listserv. *American Association of Neurological Surgeons Young Neurosurgeons' News*. (5): Article 5, Spring, 2002.
20. **Epstein CR**, Bederson JB, Aledort L. Giant Intracranial Aneurysm-Carotid Bypass-Factor VIII Deficiency: A Case Report. *Journal of Neurosurgery* (Submitted for Publication).
21. **Epstein CR**, Bederson JB. Aneurysms/Carotid Bypass/Factor VIII Deficiency, Mount Sinai Medical Center, Neurosurgery Grand Rounds. October 27, 1999, Manhattan, NY.
http://www.mssm.edu/neurosurgery/cpcd/carotid_bypass/
22. **Epstein CR**, Horowitz DR. Sagittal Sinus and Transverse Sinus Thrombosis, Mount Sinai Medical Center, Clinical Program for Cerebrovascular Disorders/Stroke Conference. October 21, 1998, 1999, Manhattan, NY.
<http://www.mssm.edu/neurosurgery/cpcd/thrombosis/>

PUBLICATIONS

Abstracts/Publications (Continued):

23. **Epstein CR**, et al: Activating the L.D. Brain to Enhance Maximum Performance in Higher Education, Abstract for AHEAD Pre-conference Workshop, July 13, 1999, Atlanta, Georgia.
24. **Epstein CR**, Trace D, Naeymi-Rad F. Multi-Lingual IMR-E (Intelligent Medical Records Entry). *Clinical Research Journal*. October 1993.

Internet Publications:

1. **Epstein CR**. Professional Development in Neurological Surgery. Neurosurgery://On-Call®, February 2002.
<http://www.neurosurgery.org/resident/chicagoreview2002.html>
2. "Aneurysms/Carotid Bypass/Factor VIII Deficiency", Mount Sinai Medical Center, Neurosurgery Grand Rounds. October 27, 1999, Manhattan, NY -
http://www.mssm.edu/neurosurgery/cpcd/carotid_bypass/
3. "Sagittal Sinus and Transverse Sinus Thrombosis", Mount Sinai Medical Center, Clinical Program for Cerebrovascular Disorders/Stroke Conference. October 21, 1998, 1999, Manhattan, NY. -
<http://www.mssm.edu/neurosurgery/cpcd/thrombosis/>
4. N://OC® Editorial Board Web Page -
<http://www.neurosurgery.org/nocedboard.html>
5. N://OC® Young Neurosurgeons Web Page -
<http://www.neurosurgery.org/yms/index.html>
6. N://OC® Residents Corner Web Page -
<http://www.neurosurgery.org/resident/index.html>
7. Today News, October 1998 -
<http://www.llu.edu/news/today/oct98/llu.htm#LLU>
8. AANS/CNS Committees -
<http://www.neurosurgery.org/jointactivities.html>
9. Young Neurosurgeons Committee, Chairman's Message, 2000 -
http://www.neurosurgery.org/resident/0999yms_chairman.html
10. AANS Annual Report, 2000 -
<http://www.neurosurgery.org/aans/about/aansannualreport00.pdf>
11. AANS Annual Report, 1999 -
<http://www.neurosurgery.org/aans/about/aansannualreport99.pdf>
12. CSNS Young Physicians Committee, April 7, 2000 -
<http://www.neurosurgery.org/csns/0400/0400young.html>
13. CSNS Young Physicians Committee, April 23, 1999 -
<http://www.neurosurgery.org/csns/499/ypc99.html>
14. List of Attendees at the September 1998 Council of State Neurosurgical Societies -
http://www.neurosurgery.org/csns/998/10_98_attendees.html
15. CSNS Medical Legal Committee Meeting, October 2, 1998 -
http://www.neurosurgery.org/csns/998/10_98_medlegal.html

PUBLICATIONS

Internet Publications (Continued):

16. CSNS Southwest Quadrant Report, October 2, 1998 -
http://www.neurosurgery.org/csns/998/10_98_swquad.html
17. Today News, October 22, 1998 -
<http://www.llu.edu/news/today/oct22-98/llu.htm#Teaching>
18. Today News, September 1998 -
<http://www.llu.edu/news/today/sept98/llu.htm#Teaching>

PROFESSIONAL ACTIVITIES

Service to Scientific Scholars:

1. Editorial Board for the Journal of Maxillofacial and Oral Surgery, (National Journal of The Association of Oral and Maxillofacial Surgeons of India)
2. Scientific Advisory Board Member, Fourth Annual International Neurosurgery Conference, December 13 – 14, 2008.
3. Board of Directors, The American Board of Neurological and Orthopaedic Surgeons
4. Executive Committee Secretary, The American Board of Neurological and Orthopaedic Surgeons Board of Directors
5. Scientific Organizing Committee for the 33rd Annual Scientific Meeting of The American Board of Neurological and Orthopaedic Surgeons
6. Chair of the Division of Neurological Surgery, Council of Surgical Specialty Group Chairs of the International College of Surgeons, United States Section
7. Chair of the Scientific Organizing Committee for the 34th Annual Scientific Meeting of The American Board of Neurological and Orthopaedic Surgeons
8. Appointed Boulder County Medical Society Delegate to the Colorado Medical Society, 2009 Annual Meeting of the House of Delegates of the Colorado Medical Society, Beaver Run Resort & Conference Center, Breckenridge, CO, September 11-13, 2009.
9. Appointed to Advisory Board for ONE Freedom, Inc. - 501(c)(3), February 21, 2010.

Peer Reviewed Presentations & Invited Lectures:

1. Invited Guest Speaker, “Gliomas: Diagnosis, Treatment & Future Technology” at the 71st United States Section of the International College of Surgeons Annual Meeting and 41st North American Federation Congress and Joint Annual Meetings of the Canadian, Mexican and United States Sections of the International College of Surgeons, May 27-30, 2009, in Montreal, Quebec, Canada
2. Invited Guest Speaker, “Infections Related to Major Neurosurgical Procedures” at the XX Congreso Mexicano de Cirugía Neurológica/XX Mexican Congress of Neurological Surgery, Cancun, Mexico, July 19-24, 2009.

PROFESSIONAL ACTIVITIES

Peer Reviewed Presentations & Invited Lectures:

3. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis: Technical Case Report and Literature Review. Spine Arthroplasty Society Asia Pacific Conference, January 16-18, 2008, Seoul, Korea. (Abstract Published in Proceedings/Poster Presentation)
4. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. 2007 AANS/CNS Section on Pediatric Neurological Surgery, November 26 – December 1, 2007, Miami, FL. (Abstract Accepted/e-Poster).
5. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. the 12th Asian- Australian Society of Neurological Surgeons World Federation of Neurosurgical Societies Interim Meeting, November 18-21, 2007, Nagoya, Japan (Abstract Published in Proceedings/Oral Presentation).
6. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis: Technical Case Report and Literature Review. Congress of Neurological Surgeons 2007 Annual Meeting, September 15-20, 2007, San Diego, CA. (Abstract Published in Proceedings/e-Poster Presentation).
7. Invited Guest Speaker, “Primer Simposium - La Mujer en la Neurocirugía del Siglo XXI, Women in Neurosurgery”, Nineteenth Congress of the Mexican Society of Neurological Surgery (XIX Congreso Mexicano de Cirugía Neurológica), Mexico City, Mexico, July 12, 2007.
8. **Epstein CR**, Bourekas EC, Gabriel J, Ammirati M. Comparison of Preoperative Transarterial Embolization vs. Direct Percutaneous Embolization of Hypervascular Spinal Renal Cell Metastasis: Technical Case Report and Literature Review. XIX Congreso Mexicano de Cirugía Neurológica. July 6-13, 2007, Mexico City, Mexico. (Abstract Published in Proceedings/Oral Presentation).
9. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. XIX Congreso Mexicano de Cirugía Neurológica. July 6-13, 2007, Mexico City, Mexico. (Abstract Published in Proceedings/Oral Presentation).
10. Gabriel JP, **Epstein CR**, Pirnia N, Perry CR, Ammirati M, Yue JJ. Hangman’s Fracture: Successful Conservative Treatment for Type I, Type II and Type IIA Fractures Using Rigid Immobilization. XIX Congreso Mexicano de Cirugía Neurológica. July 6-13, 2007, Mexico City, Mexico. (Abstract Published in Proceedings/Oral Presentation).

PROFESSIONAL ACTIVITIES

Peer Reviewed Presentations & Invited Lectures (Continued):

11. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. 18th Annual North American Skull Base Society Meeting; May 24-27, 2007, Chicago, IL. (Poster Presentation).
12. **Epstein CR**, Chang DJ. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review. 3rd International Symposium on Microneurosurgical Anatomy, November 5-8, 2006, Antalya, Turkey. (Poster Presentation).
13. **Epstein CR**, McGregor JM, Yang M, Chang DJ, Christoforidis GA, Robitaille PM. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvasculature Within Human Gliomas Using Neuronavigation. World Federation of Neurological Surgeons 1st Annual Levantine Forum. November 7-9, 2004, Palace Hotel Congress Center, Bari, Italy. (Oral and Poster Presentation).
14. **Epstein CR**, McGregor JM, Yang M, Chang DJ, Christoforidis GA, Robitaille PM. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvasculature Within Human Gliomas Using Neuronavigation. 54th Annual Congress of Neurological Surgeons Meeting. October, 16-21, 2004, San Francisco, CA. (Poster Presentation).
15. **Epstein CR**, McGregor JM, Yang M, Abduljalil A, Chaudhury AR, Robitaille PM, Christoforidis GA. Correlation of Microvasculature within Human Gliomas Identified at 8-Tesla Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies. 16th Congress of the European Society for Stereotactic and Functional Neurosurgery. June 23-26, 2004, Vienna, Austria. (Oral Presentation).
16. **Epstein CR**, Christoforidis GA. Correlation of Microvasculature within Human Gliomas Identified at 8-Tesla Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies. Invited Lecturer, The Ohio State University Medical Center, Neurosurgery Grand Rounds, June 10, 2004, Columbus, OH.
17. **Epstein CR**, McGregor JM, Yang M, Abduljalil A, Chaudhury AR, Robitaille PM, Christoforidis GA. Correlation of Microvasculature within Human Gliomas Identified at 8-Tesla Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies. Poster presented and awarded The Ohio State University Annual Research Day Award and Traveling Scholarship, April 1, 2004.
18. **Epstein CR**, Zamorano L, Kim H, Diaz F, Levin K, Fontanesi J, Ducharme E. Radiosurgical Treatment of Incompletely Obliterated AVM After LINAC and Gamma Knife Surgery. American Society for Stereotactic and Functional Neurosurgery Quadrennial Meeting. May 18-21, 2003, New York, NY. (Poster Presentation).

PROFESSIONAL ACTIVITIES

Peer Reviewed Presentations & Invited Lectures (Continued):

19. **Epstein CR**, Zamorano L. Web-based Teaching Tools with Wireless Access for Computer Assisted Neurosurgery and Radiosurgery. Fourth Annual Teaching, Learning, and Technology Round Table Conference. Wayne State University Medical Campus, March 6, 2003, Detroit, MI. (Oral Presentation).
20. **Epstein CR**, Tuhim S: "Multiple Infarctions of Unknown Etiology" Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, May 18, 2000.
21. **Epstein CR**, Bederson JB: "Malignant Stroke and Hemicraniectomy" (Slide/Lecture Presentation), Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, April 27, 2000.
22. **Epstein CR**, Sheinart KF: "Intracranial Hemorrhage Associated with Thrombolysis" (Slide/Lecture Presentation), Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, March 16, 2000.
23. **Epstein CR**, Sheinart KF: "Cerebellar Infarction" (Slide/Lecture Presentation) Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, February 17, 2000.
24. **Epstein CR**, Bederson JB, Tuhim S: "Developing a Stroke Team" Presented at the AANS/CNS/ASITN Annual Cerebrovascular Surgery Conference, New Orleans, LA, February 6, 2000.
25. **Epstein CR**, Tuhim S: "Stroke Associated with Intracranial Vascular Disease and A Discussion of WASID. The Warfarin-Aspirin Symptomatic Intracranial Disease Trial" (Slide/Lecture Presentation), Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, January 20, 2000.
26. **Epstein CR**: "Intracerebral Hemorrhage and A Comprehensive Overview of the Malignant Gliomas and Their Treatment" (Slide/Lecture Presentation), Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, December 16, 1999.
27. **Epstein CR**, Tuhim S: "Intraventricular Hemorrhage and TPA" (Slide/Lecture Presentation), Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, November 18, 1999.
28. **Epstein CR**, Bederson JB, Aledort L. "Aneurysms/Carotid Bypass/Factor VIII Deficiency" (Slide/Lecture Presentation), Presented at Neurosurgery Grand Rounds, Mount Sinai Medical Center, Manhattan, NY, October 27, 1999.
29. **Epstein CR**, Horowitz DR. "Sagittal Sinus and Transverse Sinus Thrombosis" (Slide/Lecture Presentation), Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, October 21, 1998, 1999.

PROFESSIONAL ACTIVITIES

Peer Reviewed Presentations & Invited Lectures (Continued):

30. **Epstein CR**, Bederson JB, Aledort L. "Aneurysms/Carotid Bypass/Factor VIII Deficiency" (Slide/Lecture Presentation), Mount Sinai Medical Center, Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, September 16, 1999.
31. **Epstein CR**. Honorary Guest Speaker, CAHMCPS/CMS Alumni Honorarium Grand Rounds Presentation. "My Patient: Glioblastoma multiforme and A Comprehensive Overview of the Malignant Gliomas and Their Treatment" (Slide/Lecture Presentation), FUHS/The Chicago Medical School, Grand Rounds. July 16, 1999, North Chicago, IL.
32. **Epstein CR**, Trace D, Naeymi-Rad F: Research Colloquium "Multi-Lingual IMR-E (Intelligent Medical Records Entry) Software Development" Presented at the Midwest Medical Student Research Forum, University of Nebraska College of Medicine and Creighton University School of Medicine, Omaha, Nebraska, February 12-13, 1993 (Supported by American Medical Association Education & Research Foundation.)
33. **Epstein CR**, Trace D, Naeymi-Rad F. Multi-Lingual IMR-E (Intelligent Medical Records Entry) Research. Invited Presentation (Entire Day Workshop) at the HELINA 93, First International Working Conference on Health Informatics in Africa, (Cosponsored by World Health Organization) April 26-28, 1993, Obafemi Awolowo University, Ile-Ife, Nigeria, Africa.

GRANTS & FUNDING:

1. American Academy of Neurological and Orthopaedic Surgeons Annual Meeting & Workshops Scientific Organizing Committee:
2009 Montreal, Quebec, Canada Contributions Generated: \$20,000+ In-kind donations
2010 Denver, CO, USA Contributions Generated: \$62,000+ In-kind donations
2. Recipient, Musculoskeletal Education and Research Center National Forum (MERC) Educational Grant, A Comprehensive Spine Review for Residents & Fellows (Alexander R. Vaccaro, MD and Harry N. Herkowitz, MD, Chairmen) White Sulphur Springs, West Virginia, May 11-12, 2007.
3. Michigan Life Science Corridor Award Funding, "Integration of Bioengineering & Biocomputing to Advance Michigan Computer-Assisted Surgery Research," Participated in Computer Assisted Surgery Laboratory Web Re-development, CAS Laboratory Redesign, and Interdisciplinary Curriculum. Amount Awarded: \$3,377,560 to Wayne State University and Lucia Zamorano, MD. May 2003.

GRANTS & FUNDING (Continued):

4. National Science Foundation Integrative Graduate Education and Research Traineeship (NSF-IGERT) Scholarship Recipient, Wayne State University, College of Engineering and Division of Computer Assisted Surgery, Detroit, MI. Research Project Entitled “Web-based Teaching Tools with Wireless Access for Computer Assisted Neurosurgery and Radiosurgery”. Research Advisors: Lucia Zamorano, MD and Vipin Chaudhary, PhD. 2002-2003. Amount Awarded: \$33,297
5. Co-Chaired the 1st and 2nd Annual AANS/Young Neurosurgeons’ Silent Auction for Neurosurgical Research (NREF) Previously known as the AANS Research Foundation Fellowship and Young Clinician Investigator Awards. 1999 Contribution Value: \$38,493.90 Income Generated: \$15,126. 2000 Contribution Value: \$15,166.95 Income Generated: \$5,685.

RESEARCH:

1. Peacock Stereotactic Hypofractionated Radiotherapy for Malignant Gliomas Project. Working with Mario Ammirati, MD, MBA, 2007-Present.
2. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvascularity Within Human Gliomas Using Neuronavigation. Worked with Gregory A. Christoforidis, MD, 2003-2007.
3. Correlation of Microvascularity within Human Gliomas Identified at 8-Tesla, Ultra High Resolution MRI and Histopathology Using Frameless Stereotactic Guided Biopsies, Ohio State University Medical Center, Columbus, Ohio, ongoing research. Worked with Gregory A. Christoforidis, MD, 2003-2007.
4. Evaluation of Hypertension in Size of Cerebral Infarction due to Middle Cerebral Artery Occlusion after Delayed Arterial Revascularization, Ohio State University Medical Center, Columbus, Ohio, ongoing research. Worked with Gregory A. Christoforidis, MD, Ming Yang, MD, 2004-2007.
5. National Science Foundation Integrative Graduate Education and Research Traineeship (NSF-IGERT) Scholarship Recipient, Wayne State University, College of Engineering and Division of Computer Assisted Surgery, Detroit, MI. Research Project Entitled “Web-based Teaching Tools with Wireless Access for Computer Assisted Neurosurgery and Radiosurgery”. Research Advisors: Lucia Zamorano, MD and Vipin Chaudhary, PhD. 2002-2003.
6. "The Minorities Risk Factors and Stroke Study II (MRFASSII)," Mount Sinai Medical Center, New York. Worked with Stan Tuhim, MD, September 1999- June 2000.
7. "Warfarin - Aspirin Symptomatic Intracranial Disease (WASID) Trial," Mount Sinai Medical Center, New York. Worked with Stan Tuhim, MD, September 1999- June 2000.
8. "Mapping of Human Cortical Function with fMRI and Cognitive Intervention With Functional Improvement." Independent Research Project, Loma Linda University, Teaching Learning Center, 1998-1999.
9. "Teaching Learning Center and School of Medicine Joint Pilot Study", ongoing research, Loma Linda University, 1998-1999.

RESEARCH (Continued):

10. Three research studies investigating and evaluating trauma surgery as related to traumatic hepatic repair, "Multidisciplinary Approach to Management of Complex Hepatic Injury AAST-OISC (American Association for the Surgery of Trauma-Organ Injury Scaling Committee) Grade 4-5, The Role of Trauma Surgery and Interventional Radiology", Traumatic Pulmonary Repair, and Traumatic Carotid Repair. Worked with D. Demetriades, MD, PhD and Juan Ascencio, MD, The Los Angeles County Hospital & University of Southern California Medical Center, Department of Surgery, Division of Trauma Surgery and Surgical Critical Care, 1996-1997.
11. Research study investigating and evaluating head trauma, the Shaken Baby Syndrome and medical legal outcome. Worked with David McLone, MD, John Grant, MD, and Stephen Huhn, MD, Department of Pediatric Neurosurgery, Children's Memorial Hospital, Chicago, IL, 1995-1996.
12. Multi-Lingual IMR-E (Intelligent Medical Records Entry) Software Development presented at the Midwest Medical Student Research Forum, University of Nebraska College of Medicine and Creighton University School of Medicine, Omaha, Nebraska, February 12-13, 1993 (Supported by American Medical Association Education & Research Foundation.)
13. "Mating Behavior and the Relationship to Eye Color of *Drosophila melanogaster*", Research, Department of Biology, University of Illinois at Chicago, Chicago, IL, Worked with Dr. Christopher Kodadek, 1982-1983.

EXTRA-CURRICULAR ACTIVITIES:

- | | |
|-----------|--|
| 2010 | Physician Leadership Medical Home Summit, Creating Medical Home Communities, Systems of Care/Patient Centered Medical Home Initiative, Invited Specialist - Neurosurgeon, Colorado Medical Society, Denver, CO, February 27, 2010 |
| 2010 | Advisory Board, Magis Group, Inc and ONE Freedom, Inc. - 501(c)(3), Train-the-Trainer (T3), Chautauqua, Boulder, CO, February 21-26, 2010 |
| 2009 | Physician Leadership Medical Home Summit, Creating Medical Home Communities, Systems of Care/Patient Centered Medical Home Initiative, Invited Specialist - Neurosurgeon, Colorado Medical Society, Denver, CO, October 30-31, 2009 |
| 2009 | Disaster Management - 2009 DisRobe Exercise, "Decon" Hospital Emergency Preparedness Exercise, September 26, 2009, Boulder Community Foothills Hospital, Boulder, CO |
| 2007 | Co-founded <i>Neurocirujanas</i> - the first Mexican Women Neurosurgeons organization and contributed to www.neurocirujanas.org , their new web site. There are currently 35 women neurosurgeons in Mexico. Dr. Epstein will function as an ongoing Liaison to this organization from the U.S. |
| 2006 | Ohio State University, Center for Integrative Medicine Foundation Development Workgroup. |
| 2000-2001 | Volunteer, Jewish Family Services - Established Boulder, CO Transitional Housing, Participated in "Friendly Visitor" Program. |

EXTRA-CURRICULAR ACTIVITIES (Continued):

- 1990-1996 Volunteer/Fund Raising for Technion, Israel's Institute of Technology, Jewish Council for Youth Services, U.S. Holocaust Memorial Museum, and other community activities.
- 1990-91 Alivio Medical Center, Chicago, IL-Volunteer/Organized NBME Part I Board Review, Taught basic medical sciences to medical students and foreign licensed physicians.
- 1987-88 San Francisco II Clinic, Zapopan, Jalisco, Mexico-Volunteered health care provision, administered injections, taught preventive medicine.
- 1987-88 Coordinated Clinic Renovation Project, San Francisco II Clinic, Zapopan, Jalisco, Mexico.

PERSONAL INTERESTS:

Computers and Technology - Neuroinformatics, Medical Web Development, CEO/President BrainBiz.Org, Inc., Internet Consulting, Development of Novel Technologies as Applied to Neurosurgery including Neuro-robotics, Minimally Invasive Spine and Cranial Applications, Neuro-endoscopy, Stereotaxis & Neuro-imaging.

Sports - Mountain Biking/Training/Commuting (200 miles/week), Hiking, Weight Training, Running (25 miles/week)

Arts - Enjoy Opera, Theater, Ballet.

Fine Art - Painting (acrylics and oils), Drawing (charcoal and pencil).

International Travel – Africa, Austria, Canada, England, France, Greece, Italy, Mexico, Turkey.

Piloting/Flying Airplanes - Trained on a Citabria; working towards acquisition of Pilot's License.

LANGUAGES:

Fluent written, spoken and scientific knowledge of English and Spanish.