

CURRICULUM VITAE

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 <http://www.boulderneurosurgery.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
Bioskills Education Center, Long Island Jewish Hospital, New York, NY; Saturday, February 6, 2010
Course Chairmen: Jeff Coe, MD, Josue Gabriel, MD
- 2010 FEMA Emergency Management Institute, National Incident Management System (NIMS) An Introduction and Introduction to the Incident Command system, ICS -100 Certification Course
Boulder, CO, February 16, 2010
- 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
- 2010 Accuray CyberKnife Elements Course
June 30, 2010, Creekside Cancer Care Center, Lafayette CO
Faculty - Derek Olender, Eric Lindquist
- 2010 2nd Annual Spine Adventure Weekend
July 23-24, 2010, The Spine Institute, Fort Collins/Loveland, CO
Faculty - Kenneth Pettine, MD,
- 2010 Accuray CyberKnife System Technical Training Course
August 16-17, 2010, Sunnyvale CA
Faculty - Brian Thorndyke, PhD, DABR
- 2011 TranS1® AxiaLIF® 2L+ Surgical Procedure Certification
April 12, 2011
Training Centers of Excellence, Cadaver-Based Lab & Lecture
The Curtis Hotel, Denver, Colorado
Faculty - Larry Khoo, MD
- 2011 OmniGuide® CO₂ Laser Certification
April 28, 2011
An Overview of Laser Physics
Laser Safety in the Operating Room
Surgical Technique with the OmniGuide® laser fiber
Hands-On Practical Laboratory Session
Faculty - Andrea Tanner, RN, BSN and Grey Nuttall
Boulder Neurosurgery Center, LLC, Boulder, CO

POST GRADUATE MEDICAL EDUCATION (Continued):

- 2011 Colorado Medical Society 2011 Spring Conference
'You Got the Power'- Realigning your practice economics and your life, April 29, 2011 - May 1, 2011, Sonnenalp Resort, Vail, CO
Faculty - Brent Keeler, MD, Harold Miller, Ruth Benton, CEO, New West Physicians, Mark Williams, MD, Sonja Boone, MD, AMA, Ted Clarke, MD, COPIC, Deb Parsons, MD, Doris Gunderson, MD, Colorado Physician Health Program
- 2011 4th Annual Spring Spine Symposium Innovations in Spine Care
Saturday, May 7, 2011
Brown Palace Hotel, Denver, CO
Faculty: Michael Janssen, D.O. and Joseph Morreale, M.D.
- 2011 Colorado Medical Society Annual Meeting of the House of Delegates, Beaver Run, Breckenridge, CO, September 11, 2011.
Faculty - Brent Keeler, MD, Doris Gunderson, MD, Colorado Physician Health Program
- 2012 Colorado Medical Society 2012 Spring Conference
"Lead, Follow or Wander: Making a Case for Physician Engagement," May 4-6, 2012, Sonnenalp Resort, Vail, CO
Faculty – Jan M. Kief, MD, Doris Gunderson, MD, Colorado Physician Health Program
- 2012 Colorado Medical Society 2012 Annual Conference
September 6-9, 2012, Keystone Resort & Conference Center, CO
Faculty – Jan M. Kief, MD, Doris Gunderson, MD, Colorado Physician Health Program
- 2012 *Progressive Techniques in Minimally Invasive Spine Surgery*, SpineWave, Surgeon Presentations & MISS Cadaveric Lab, November 16-17, 2013, Henderson, NV
MISS and Degenerative Deformity
MISS and Trauma, Burst and Chance Fracture
MISS and Stenosis with Spyndylolisthesis
MISS and Scoliosis
MISS and the Lateral Approach
Patient Selection
MISS or Traditional Approach
Sagittal Balance and Spine Surgery
Faculty – Domagoj Coric, MD, Claudio Feler, MD, David Greenwald, MD, Phillip Kravetz, MD, James Manzanares, MD, Jonathan Sherman, MD, Cary Templin, MD

POST GRADUATE MEDICAL EDUCATION (Continued):

- 2012 AMA MAS Advanced Physician Leadership Program – Improving Health Outcomes with Physician Leadership, November 30, 2012, Chicago, IL
- 2012 SECURE®-C Cervical Artificial Disc Surgeon Training, December 8, 2012, Swissotel, Chicago, IL
- 2012 Mazor Robotics Surgeon Training, December 11, 2012, Vista Lab, Baltimore, MD
- 2012 LDR ROI-C Cervical Cage Cadaver Lab, Faculty - Joseph Morreale, MD, December 15, 2012, SERI Center, Thornton, CO
- 2012 LifeSpine, Lateral Spine Approaches (Plateau X and Avatar 2.0) Cadaveric Bioskills Lab, San Diego, CA, December 18, 2012
- 2013 LANX Surgeon Bioskills Cadaver Lab & Didactic Sessions - Introduction to Timberline™, Surgeon Faculty & Proctors: Dr. Andy Cappuccino, Dr. Clint Hill & Dr. Brandon Streng, February 16, 2013, Center for Surgical Innovation at the University of Colorado, Anschutz Campus, Denver, CO
- 2013 1st International Neurosciences Conference: Novel Neurosurgical Techniques and Neuronavigation, Sociedad Mexicana de Cirugia Neurologica (Mexican Society of Neurological Surgeons), March 22-23, 2013, Hotel Real Inn, Altozano, Morelia Michoacan, Mexico
- 2013 *Women in Neuromodulation*, St. Jude, June 21-23, 2013, W Hotel, Chicago, IL
Course Faculty – Tory McJunkin, M.D., Arizona Pain Specialists, Scottsdale, AZ; Julie Pilitsis, M.D., UMASS/Albany Medical Center, Worcester, MA; Erika Petersen, M.D., UAMS Department of Neurosurgery, Little Rock, AR; Heather Nath, M.D., Lakeshore Bone and Joint Institute, Chesterton, IN
- 2013 “*Finding the Dollars: Thriving Through Health Care Payment Reform*”, Dinner Seminar Cosponsored by Athena and Health Images Boulder, July 30, 2013, Frasca, Boulder, CO
- 2014 Colorado Neurosurgical Society Annual Holiday Meeting & Dinner, Kerry Brega MD "Concussions in NFL", Didactic Lecture and Q&A, January 8, 2014, Cherry Hills Country Club, Denver, CO

TEACHING POSITIONS:

- 2013 Scientific Organizing Chair of Neurosurgery (AANOS & ICS), 37th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 75th Annual Surgical Update of the International College of Surgeons United States, June 5-8, 2013, The Omni Hotel, Jacksonville, FL
- 2013 President of Boulder County Medical Society, “*An Evening Under the Umbrellas*” with the Kagami Biraki (鏡開き), a traditional Japanese Ceremony performed by Dr. Clara Raquel Epstein, MD FICS, followed by “*Welcome to Health Care Reform Accountability; Can Physicians Control Their Own Destiny?*”, Keynote Speaker - Dennis Waite, MD, MSPH, Kasa Japanese Grill & Bar, Boulder, CO, April 23, 2013, hosted by BCMS & CMS, (CME Accredited)
- 2013 Invited Honorary Key Note Speaker, *The Operating Room of the Future is Here - Stereotactic Neurosurgery, Intraoperative Imaging, Neurosurgical Robotics, Cyberknife and Other Adjuncts*, 1st International Neurosciences Conference: Novel Neurosurgical Techniques and Neuronavigation, Sociedad Mexicana de Cirugia Neurologica (Mexican Society of Neurological Surgeons), March 22-23, 2013, Hotel Real Inn, Altozano, Morelia Michoacan, Mexico
- 2013 Invited Honorary Key Note Speaker, *Radiocirugia Seguimiento a Largo Plazo: Complicaciones*, 1st International Neurosciences Conference: Novel Neurosurgical Techniques and Neuronavigation, Sociedad Mexicana de Cirugia Neurologica (Mexican Society of Neurological Surgeons), March 22-23, 2013, Hotel Real Inn, Altozano, Morelia Michoacan, Mexico
- 2013 Invited Honorary Key Note Speaker, *Stereotactic Radiosurgery for Patients with Intractable Typical Trigeminal Neuralgia Who Have Failed Medical Management*, 1st International Neurosciences Conference: Novel Neurosurgical Techniques and Neuronavigation, Sociedad Mexicana de Cirugia Neurologica (Mexican Society of Neurological Surgeons) March 22-23, 2013, Hotel Real Inn, Altozano, Morelia Michoacan, Mexico
- 2012 Coal Creek Rotary Club, *The Operating Room of the Future is Here - Stereotactic Neurosurgery, Intraoperative Imaging, Neurosurgical Robotics, Cyberknife and Other Adjuncts*, Balfour Retirement Community at The Lodge, November 1, 2012, Louisville, CO

TEACHING POSITIONS (Continued):

2012 Scientific Organizing Chair of Neurosurgery (AANOS & ICS), 36th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 74th Annual Surgical Update of the International College of Surgeons United States, June 6-9, 2012, Hyatt Regency, Atlanta, GA

2012 Chair, First International Robotics Symposium & Workshop at the 36th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 74th Annual Surgical Update of the International College of Surgeons United States, June 6-9, 2012, Hyatt Regency, Atlanta, GA

Neurosurgical Robotics; Faculty – Clara Raquel Epstein, MD, FICS; ICS-US Vice President & Chair, Division of Neurosurgery; AANOS Co-Chair of Scientific Organizing Committee; Neurosurgeon/CEO, The Epstein Neurosurgery Center, LLC, Boulder, CO

Robotics in Spinal Surgery; Faculty – William Welch, MD, FACS, FICS; Professor of Neurosurgery, Chair, Department of Neurosurgery, Pennsylvania Hospital; Vice-Chair, Department of Neurosurgery, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA

The Operating Room of the Future is Here - Stereotactic Neurosurgery, Intraoperative Imaging, Neurosurgical Robotics, Cyberknife and Other Adjuncts; Faculty – Clara Raquel Epstein, MD, FICS; ICS-US Vice President & Chair, Division of Neurosurgery; AANOS Co-Chair of Scientific Organizing Committee; Neurosurgeon/CEO, The Epstein Neurosurgery Center, LLC, Boulder, CO

DaVinci Robot Assisted Anterior Lumbar Spinal Surgery; Faculty – William Welch, MD, FACS, FICS; Professor of Neurosurgery, Chair, Department of Neurosurgery, Pennsylvania Hospital; Vice-Chair, Department of Neurosurgery, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA

TEACHING POSITIONS (Continued):

2011 Chair, Symposia on Cardiac & Cerebrovascular Disorders in Neurosurgical Disease at the 35th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 73rd Annual Surgical Update of the International College of Surgeons United States, June 10-11, 2011, Hilton, Portland, OR

The Heart of Cerebrovascular Disorders; Faculty – Clara Raquel Epstein, MD, FICS

Management of AVMs; Faculty – Lucia Zamorano, MD, FICS

Acute Ischemic Stroke; Faculty – Gregory A. Christoforidis, MD

2010 Chair, Mini-Symposiums and Technical Skills Cadaveric & Sawbones Workshops at the 34th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 72nd Annual Surgical Update of the International College of Surgeons United States, May 5-8, 2010, Brown Palace Hotel & Spa/Spine Education & Research Institute, Denver, CO

Minimally Invasive Skull Base Techniques – Indications and Pearls; Faculty – Mario Ammirati, MD, MBA and Assem Salma, MD

Neuroendoscopic Cranial Surgery; Faculty – Jaime Diegopérez Ramírez, MD and Griselda Ramírez, MD

Artificial Disc Replacement vs. Spinal Fusion; Faculty – E. Jeffrey Donner, MD

Neuromodulation: Technological Advancement and Minimally Invasive Surgical Application; Faculty – Jeffrey M. Epstein, MD

TranSI® AxiaLIF® 2L Mini-open Access Technique for Minimally Invasive Spine Surgery Workshop; Faculty – Josue Gabriel, MD and David Rivadeneira, MD

Techniques in Minimally Invasive Spine Fixation - Aspen™ by LANX, Inc.; Faculty – Jeffrey S. Oppenheim, MD

Minimally Invasive Spine Sawbones Workshop; Faculty – Lucia Zamorano, MD

TEACHING POSITIONS (Continued):

2009 Chair, Mini-Symposiums and Technical Skills Cadaveric & Sawbones Workshops at the 33rd Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and 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

Surgical Management of the Aging Spine - Cadaver Workshop; Faculty - Richard Hostin, MD

Endovascular Recanalization in Acute Ischemic Stroke; Faculty - Gregory A. Christoforidis, MD

2009 Chair, Mini-Symposiums and Technical Skills Cadaveric & Sawbones Workshops at the 33rd Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and 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

Minimally Invasive Spine - Sawbones Workshop; Faculty - Lucia Zamorano, MD

Minimally Invasive Skull Base Techniques - Indications and Pearls; Faculty - Mario Ammirati, MD, MBA

Neuroendoscopic Surgery of Third Ventricular Tumors; A 14 Year History of Case Reviews and Technical Pearls; Faculty - Jaime Diegopérez Ramírez, MD

Neuromodulation: Technological Advancement and Minimally Invasive Surgical Application; Faculty - Jeffrey M. Epstein, MD

Minimally Invasive Spine Surgery Including XLIF and TLIF; Faculty - Fernando G Diaz, MD, PhD, JD

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

TEACHING POSITIONS (Continued):

- 2006-7 Clinical Instructor, The Ohio State University Medical Center, Department of Neurological Surgery, Skull Base Surgery & Clinic with Mario Ammirati, MD, MBA – Instruction of medical students and nurse clinician, Clinical Research & Publications, Participated in Annual NASBS Meeting Presentations & Workshops
- 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
- 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

TEACHING POSITIONS (Continued):

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:

- 2010 Neurosurgery Consultant, Lanx, Inc.
- 2009-Present CEO/President, Epstein Neurosurgery Center, LLC (Formerly known as Boulder Neurosurgery Center, LLC)
- 2009-Present CEO/President & Founder, Epstein Neurosurgery Foundation, Inc. 501(c)(3) (Formerly known as Boulder Neurosurgery Foundation, Inc. 501(c)(3))
- 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
- 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
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)

AWARDS AND HONORS (Continued):

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
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 - 2014 Editions, by the Consumers' Research Council of America

AWARDS AND HONORS (Continued):

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
41. Appointed Chair of the Scientific Organizing Committee of the 34th Annual Scientific Meeting of the AANOS at The American Board of Neurological and Orthopaedic Surgeons Board of Directors, 33rd Annual Scientific Meeting, May 27-30, 2009, in Montreal, Quebec, Canada
42. 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
43. 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
44. Appointed Chair of Neurosurgery of the Scientific Organizing Committee of the 34th Annual Scientific Meeting of the AANOS to be held in Denver, CO at The American Board of Neurological and Orthopaedic Surgeons Board of Directors, 33rd Annual Scientific Meeting, May 27-30, 2009, in Montreal, Quebec, Canada
45. Invited Guest Speaker, XX Congreso Mexicano de Cirugía Neurológica/XX Mexican Congress of Neurological Surgery, Cancun, Mexico, July 19-24, 2009.

AWARDS AND HONORS (Continued):

46. 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.
47. Appointed to Advisory Board for ONE Freedom, Inc. - 501(c)(3), February 21, 2010.
48. Appointed to the Continuing Medical Education Committee of The American Board of Neurological and Orthopaedic Surgeons at the Board of Directors, 34th Annual Scientific Meeting, Brown Palace Hotel & Spa, Denver, CO, May 8, 2010.
49. Appointed Chair of Neurosurgery of the Scientific Organizing Committee of the 36th Annual Scientific Meeting of the AANOS to be held in Atlanta, GA at The American Board of Neurological and Orthopaedic Surgeons Board of Directors, 33rd Annual Scientific Meeting, June 10-11, 2010, in Portland, OR
50. Appointed Boulder County Medical Society Delegate to the Colorado Medical Society, 2010 Annual Meeting of the House of Delegates of the Colorado Medical Society, Vail Cascade Resort & Spa and Conference Center in Vail, CO, September 9-12, 2010.
51. Appointed to Boulder County Medical Society/Colorado Medical Society Constitution & Bylaws Committee, 2010 Annual Meeting of the House of Delegates of the Colorado Medical Society, Vail Cascade Resort & Spa and Conference Center in Vail, CO, September 9-12, 2010.
52. Appointed to Colorado Medical Society Continuing Education Committee, Denver, CO, August 27, 2010.
53. Appointed to Boulder County Medical Society Executive Committee, Boulder, CO, October 11, 2010.
54. Appointed to Boulder County Medical Society's Web Development Committee, Boulder, CO, November 18, 2010
55. Appointed to the Physicians Congress Committee of the Colorado Medical Society at the Executive Committee Meeting of the Boulder County Medical Society, Boulder, CO, November 18, 2010.
56. Appointed as Co-Chair of the Colorado Medical Society Continuing Education Committee, Denver, CO, February 25, 2011.
57. Appointed Boulder County Medical Society Delegate to the Colorado Medical Society, 2011 Annual Meeting of the House of Delegates of the Colorado Medical Society, Beaver Run, Breckenridge, CO, September 9-11, 2011.
58. Appointed to Boulder County Medical Society/Colorado Medical Society Board of Directors/Constitution & Bylaws/Credentials Reference Committee, 2011 Annual Meeting of the House of Delegates of the Colorado Medical Society, Beaver Run, Breckenridge, CO, September 9-11, 2011.
59. Appointed to the Council on Ethics and Judicial Affairs Committee of Colorado Medical Society, 2011 Annual Meeting of the House of Delegates of the Colorado Medical Society, Beaver Run, Breckenridge, CO, September 11, 2011.
60. Appointed 2012 Vice-President, International College of Surgeons, United States Section, June 2011.

AWARDS AND HONORS (Continued):

61. Recipient of Honorary Recognition by Christopher M. Loftus, MD, FACS, Chair of the 2011 AANS International Outreach Committee of the American Association of Neurological Surgeons (AANS) for ***International Neurosurgical Leadership Role as Chair of Neurosurgery of the International College of Surgeons, US Section*** at the AANS International Reception & Award Program, 79th AANS Annual Scientific Meeting, Hyatt Regency, Denver, CO, April 11, 2011.
62. Appointed to ***The First CMS/RIHEL Advanced Physician Leadership Fellowship Program 2011-2012***, sponsored by the Colorado Trust Fund.
63. Appointed to the Council on Legislation, Colorado Medical Society by Boulder County Medical Society Executive Committee, January 26, 2012.
64. Appointed 2013 President-Elect, Boulder County Medical Society, May 24, 2012.
65. Appointed 2013 Vice-President, International College of Surgeons, United States Section, June 2012
66. Appointed Boulder County Medical Society Delegate to the Colorado Medical Society, 2012 Annual Meeting of the House of Delegates of the Colorado Medical Society, September 7-9, 2012, Keystone Convention Center, Keystone, CO
67. Appointed to Boulder County Medical Society/Colorado Medical Society Board of Directors/Constitution, Bylaws and Credentials Reference Committee, 2012 Annual Meeting of the House of Delegates of the Colorado Medical Society, September 7-9, 2012, Keystone Convention Center, Keystone, CO
68. Appointed President of Boulder County Medical Society, BCMS Annual Meeting and Dinner, October 20, 2013, Greenbriar Inn, Boulder, CO.
69. Recipient of ***The Lifetime Achievement Award in Neurosurgery*** by the International College of Surgeons and the American Academy of Neurological Surgeons, June 7, 2013, presented by Kazem Fathie, MD, PhD, FACS, FICS, Chair of the AAANOS and Past President of the ICS at The Omni Hotel, Jacksonville, FL. The Lifetime Achievement Award is The Academy's most prestigious honor given to an individual who has established a history of distinguished contributions to the specialty of Neurosurgery or Orthopaedic Surgery and its leadership. The recipient has achieved lasting global recognition amongst his/her peers, including clinical and surgical care, continuing medical education, novel research and humanitarian contributions and has been acknowledged as having reached a pinnacle of their specialty. Recipients of this award are recognized for personal integrity and exceptional contributions to Neurosurgery or Orthopaedic Surgery, clinical Neurosurgical/Orthopaedic care, translational research and contributions as a leader to Neurosurgery/Orthopaedic Surgery through organized medicine and humanitarian efforts. This prestigious honor annually recognizes a Neurosurgeon and Orthopaedic Surgeon who has demonstrated significant scientific and professional achievement during their medical and surgical careers. Nominees for the award are reviewed and scrutinized by the AANOS Awards Committee and The Academy Board of Directors. Dr. Epstein is the first woman Neurosurgeon and youngest recipient of this honor.

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
Colorado Neurosurgical 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 (Founder)
Neurological Surgery Research Listserv – International Member
North American Skull Base Society
North American Spine Society
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. Chang DJ, **Epstein CR**. Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review.
3. **Epstein CR**, Chang DJ. Skull Base Extension of Mucoepidermoid Carcinoma and a Concurrent AVM: Case Report and Literature Review.
4. 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.
5. 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
6. **Epstein CR**, Yang M, Chang DJ, Christoforidis GA, Chaudhury AR, Robitaille PM. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvasculature Within Human Gliomas Using Neuronavigation.
7. 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
8. Gabriel JP, **Epstein CR**. Kyphoplasty and Vertebroplasty. Book Chapter for A Comprehensive Spine Review for Residents & Fellows by Alexander R. Vaccaro, MD

Publications/Abstracts:

1. Christoforidis GA, Yang M, Abduljalil A, Chaudhury AR, Newton HB, McGregor JM, **Epstein CR**, Yuh WTC, Watson S, Robitaille PML. "Tumoral Pseudoblush" Identified within Gliomas at High-Spatial-Resolution Ultrahigh-Field-Strength Gradient-Echo MR Imaging Corresponds to Microvasculature at Stereotactic Biopsy. *RAD*.2012 Jul;(264):210-217.
2. Christoforidis GA, Yang M, Abduljalil A, Chaudhury AR, Newton HB, McGregor JM, **Epstein CR**, Yuh WTC, Watson S, Robitaille PML. "Tumoral Pseudoblush" Identified within Gliomas at High-Spatial-Resolution Ultrahigh-Field-Strength Gradient-Echo MR Imaging Corresponds to Microvasculature at Stereotactic Biopsy. *Radiology* Published Online 24 May 2012, doi:10.1148/radiol.12110799
3. Kanat A, **Epstein CR**. Challenges to Neurosurgical Professionalism. *CLINEU*.2010 Dec;(112):839-843.
4. Kanat A, **Epstein CR**. Challenges to Neurosurgical Professionalism *Clinical Neurology and Neurosurgery*, Published Online: 13 August 2010, <http://dx.doi.org/10.1016/j.clineuro.2010.07.012>.
5. Ammirati M, Spiliopoulos K, **Epstein CR**, Gabriel J, Bourekas EC. Preoperative Direct Percutaneous Embolization of Spinal Metastasis from Renal Cell Carcinoma, *Journal of NeuroInterventional Surgery*. Published Online: 16 December 2010, <http://dx.doi.org/10.1136/jnis.2010.003699>.

PUBLICATIONS

Publications/Abstracts (Continued):

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. Spine Arthroplasty Society Asia Pacific Conference, January 16-18, 2008, Seoul, Korea. (Abstract Accepted/Poster Presentation)
7. **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).
8. **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).
9. **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).
10. **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).
11. **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).
12. 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).
13. **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).
14. **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).

PUBLICATIONS

Publications/Abstracts (Continued):

15. **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).
16. **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).
17. **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).
18. **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).
19. **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. *Acta Neurochirurgica The European Journal of Neurosurgery*. Vol 146, No. 8, July 2004.
20. **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.
21. **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).
22. **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).
23. **Epstein CR**. Professional Development in Neurological Surgery. *American Association of Neurological Surgeons Young Neurosurgeons' News*. (6): Article 6, Spring, 2002.

PUBLICATIONS

Publications/Abstracts (Continued):

24. **Epstein CR.** Young Neurosurgeons Listserv. *American Association of Neurological Surgeons Young Neurosurgeons' News.* (5): Article 5, Spring, 2002.
25. **Epstein CR,** Bederson JB, Aledort L. Giant Intracranial Aneurysm-Carotid Bypass-Factor VIII Deficiency: A Case Report. *Journal of Neurosurgery* (Submitted for Publication).
26. **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/
27. **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/>
28. **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.
29. **Epstein CR,** Trace D, Naeymi-Rad F. Multi-Lingual IMR-E (Intelligent Medical Records Entry). *Clinical Research Journal.* October 1993.

Internet Publications:

1. Kanat A, **Epstein CR.** Challenges to Neurosurgical Professionalism. *Clinical Neurology and Neurosurgery*, Published Online 13 August 2010, <http://dx.doi.org/10.1016/j.clineuro.2010.07.012>.
2. **Epstein CR.** Professional Development in Neurological Surgery. Neurosurgery://On-Call®, February 2002.
<http://www.neurosurgery.org/resident/chicagoreview2002.html>
3. "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/
4. "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/>
5. N://OC® Editorial Board Web Page - <http://www.neurosurgery.org/nocedboard.html>
6. N://OC® Young Neurosurgeons Web Page - <http://www.neurosurgery.org/yns/index.html>
7. N://OC® Residents Corner Web Page - <http://www.neurosurgery.org/resident/index.html>
8. Today News, October 1998 - <http://www.llu.edu/news/today/oct98/llu.htm#LLU>
9. AANS/CNS Committees - <http://www.neurosurgery.org/jointactivities.html>

PUBLICATIONS

Internet Publications (Continued):

10. Young Neurosurgeons Committee, Chairman's Message, 2000 -
http://www.neurosurgery.org/resident/0999yns_chairman.html
11. AANS Annual Report, 2000 -
<http://www.neurosurgery.org/aans/about/aansannualreport00.pdf>
12. AANS Annual Report, 1999 -
<http://www.neurosurgery.org/aans/about/aansannualreport99.pdf>
13. CSNS Young Physicians Committee, April 7, 2000 -
<http://www.neurosurgery.org/csns/0400/0400young.html>
14. CSNS Young Physicians Committee, April 23, 1999 -
<http://www.neurosurgery.org/csns/499/ypc99.html>
15. List of Attendees at the September 1998 Council of State Neurosurgical Societies - http://www.neurosurgery.org/csns/998/10_98_attendees.html
16. CSNS Medical Legal Committee Meeting, October 2, 1998 -
http://www.neurosurgery.org/csns/998/10_98_medlegal.html
17. CSNS Southwest Quadrant Report, October 2, 1998 -
http://www.neurosurgery.org/csns/998/10_98_swquad.html
18. Today News, October 22, 1998 - <http://www.llu.edu/news/today/oct22-98/llu.htm#Teaching>
19. 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, Third Annual International Neurosurgery Conference (AINC), December 15-16, 2007.
3. Scientific Advisory Board Member, Fourth Annual International Neurosurgery Conference (AINC), December 27-30, 2008.
4. Scientific Advisory Board Member, Fifth Annual International Neurosurgery Conference (AINC), December 27-30, 2009.
5. Board of Directors, The American Board of Neurological and Orthopaedic Surgeons (2008-Present)
6. Executive Committee Secretary, The American Board of Neurological and Orthopaedic Surgeons Board of Directors
7. Scientific Organizing Committee for the 33rd Annual Scientific Meeting of The American Board of Neurological and Orthopaedic Surgeons
8. Chair of the Division of Neurological Surgery, Council of Surgical Specialty Group Chairs of the International College of Surgeons, United States Section
9. 2009-2010 Chair of the Scientific Organizing Committee for the 34th Annual Scientific Meeting of The American Board of Neurological and Orthopaedic Surgeons, Denver, CO
10. President, The American Board of Neurological and Orthopaedic Surgeons Board of Directors (2010-2013)
11. 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.
12. 2010-2011 Chair Scientific Organizing Committee for the 35th Annual Scientific Meeting of The American Board of Neurological and Orthopaedic Surgeons held in Atlanta, GA
13. Appointed to Advisory Board for ONE Freedom, Inc. - 501(c)(3), February 21, 2010.
14. Scientific Advisory Board Member, Sixth Annual International Neurosurgery Conference (AINC), August 21-28, 2010.
15. Appointed to Continuing Medical Education Committee, Colorado Medical Society, August, 2010
16. Appointed Boulder County Medical Society Delegate to the Colorado Medical Society, 2010 Annual Meeting of the House of Delegates of the Colorado Medical Society, Vail Cascade Resort & Spa and Conference Center, Vail, CO, September 9-12, 2010.
17. Appointed Delegate Constitution & Bylaws Committee, Boulder County Medical Society/Colorado Medical Society, 2010 Annual Meeting of the House of Delegates of the Colorado Medical Society, Vail Cascade Resort & Spa and Conference Center, Vail, CO, September 9-12, 2010.
18. Scientific Advisory Board Member, Seventh Annual International Neurosurgery Conference (AINC), December 26-31, 2011.

PROFESSIONAL ACTIVITIES

Service to Scientific Scholars (Continued):

19. Scientific Advisory Board Member, Seventh Annual International Neurosurgery Conference (AINC), December 26-31, 2012.
20. 2011-2012 Chair of Neurosurgery of the Scientific Organizing Committee for the 36th Annual Scientific Meeting of The American Board of Neurological and Orthopaedic Surgeons held in Portland, OR
21. Scientific Advisory Board Member of the 8th Annual International Neurosurgery Conference (AINC) of the Neurological Surgery Research ListServ, December 26-31, 2012
22. 2012-2013 Chair of Neurosurgery of the Scientific Organizing Committee for the 37th Annual Scientific Meeting of The American Board of Neurological and Orthopaedic Surgeons held in Jacksonville, FL.

Peer Reviewed Presentations & Invited Lectures

1. Invited Guest Speaker "*The 12 Actions of a Leader*" given at the CME accredited "CMS, AMA, & CAFP Co-Sponsored Regional Campaign and Grassroots Seminar", October 12, 2013, COPIC building, Denver, CO. (Other speakers included - The Honorable Irene Aguilar, MD, Jeremy Lazarus, MD, AMA Past President, Stephanie Vance, Jeff Thormodsgaard, CAFP, Terri Folk, Jim Wilson)
2. Invited Guest Speaker, "*Emerging Technologies: Are Some Surgeons Becoming Obsolete?*" at the 37th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 75th Annual Surgical Update of the International College of Surgeons United States, June 7, 2013, The Omni Hotel, Jacksonville, FL
3. As 2013 President of Boulder County Medical Society, "*An Evening Under the Umbrellas*" with the Kagami Biraki (鏡開き), a traditional Japanese Ceremony performed by Dr. Clara Raquel Epstein, MD FICS, followed by "*Welcome to Health Care Reform Accountability; Can Physicians Control Their Own Destiny?*", Keynote Speaker - Dennis Waite, MD, MSPH, Kasa Japanese Grill & Bar, Boulder, CO, April 23, 2013, hosted by BCMS & CMS (CME Accredited)
4. Invited Honorary Key Note Speaker, "*The Operating Room of the Future is Here - Stereotactic Neurosurgery, Intraoperative Imaging, Neurosurgical Robotics, Cyberknife and Other Adjuncts*", 1st International Neurosciences Conference: Novel Neurosurgical Techniques and Neuronavigation, Sociedad Mexicana de Cirugia Neurologica (Mexican Society of Neurological Surgeons), March 22-23, 2013, Hotel Real Inn, Altozano, Morelia Michoacan, Mexico
5. Invited Honorary Key Note Speaker, "*Radiocirugia Seguimiento a Largo Plazo: Complicaciones*", 1st International Neurosciences Conference: Novel Neurosurgical Techniques and Neuronavigation, Sociedad Mexicana de Cirugia Neurologica (Mexican Society of Neurological Surgeons), March 22-23, 2013, Hotel Real Inn, Altozano, Morelia Michoacan, Mexico

PROFESSIONAL ACTIVITIES

Peer Reviewed Presentations & Invited Lectures (Continued):

6. Invited Honorary Key Note Speaker, *Stereotactic Radiosurgery for Patients with Intractable Typical Trigeminal Neuralgia Who Have Failed Medical Management*, 1st International Neurosciences Conference: Novel Neurosurgical Techniques and Neuronavigation, Sociedad Mexicana de Cirugia Neurologica (Mexican Society of Neurological Surgeons), March 22-23, 2013, Hotel Real Inn, Altozano, Morelia Michoacan, Mexico
7. Invited Speaker, Coal Creek Rotary Club, *The Operating Room of the Future is Here - Stereotactic Neurosurgery, Intraoperative Imaging, Neurosurgical Robotics, Cyberknife and Other Adjuncts*, Balfour Retirement Community at The Lodge, November 1, 2012, Louisville, CO
8. Invited Guest Speaker, "Advanced Physician Leadership Luncheon Seminar" at the 36th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 74th Annual Surgical Update of the International College of Surgeons United States, June 6-9, 2012, Hyatt Regency, Atlanta, GA
9. Invited Guest Speaker, "Neurosurgical Robotics" at the 36th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 74th Annual Surgical Update of the International College of Surgeons United States, June 6-9, 2012, Hyatt Regency, Atlanta, GA
10. Invited Guest Speaker, "The Operating Room of the Future is Here - Stereotactic Neurosurgery, Intraoperative Imaging, Neurosurgical Robotics, Cyberknife and Other Adjuncts" at the 36th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 74th Annual Surgical Update of the International College of Surgeons United States, June 6-9, 2012, Hyatt Regency, Atlanta, GA
11. Invited Guest Speaker, "Neurosurgical Management of Penetrating Cranial and Cervical Trauma – A Team Approach" at the 35th Annual Scientific Meeting of the American Academy of Neurological and Orthopaedic Surgeons and the 73rd Annual Surgical Update of the International College of Surgeons United States, June 9-11, 2011, Hilton, Portland, OR
12. Invited Guest Speaker, "The Heart of Cerebrovascular Disorders" at the 35th Annual Scientific Meeting of the American Academy of Neurological and Orthopaedic Surgeons and the 73rd Annual Surgical Update of the International College of Surgeons United States, June 9-11, 2011, Hilton, Portland, OR
13. Invited Guest Speaker, "Neurosurgery and Clinical Professionalism; A Collaborative International Effort" at the 34th Annual Scientific Meeting & Workshops of the American Academy of Neurological and Orthopaedic Surgeons and the 72nd Annual Surgical Update of the International College of Surgeons United States, May 5-8, 2010, Brown Palace Hotel & Spa/Spine Education & Research Institute, Denver, CO

PROFESSIONAL ACTIVITIES

Peer Reviewed Presentations & Invited Lectures (Continued):

14. 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
15. 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.
16. **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)
17. **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).
18. **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).
19. **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).
20. 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.
21. **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).
22. **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).

PROFESSIONAL ACTIVITIES

Peer Reviewed Presentations & Invited Lectures (Continued):

23. 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).
24. **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).
25. **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).
26. **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).
27. **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).
28. **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).
29. **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.
30. **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.
31. **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):

32. **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).
33. **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.
34. **Epstein CR**, Bederson JB: "Malignant Stroke and Hemispherectomy" (Slide/Lecture Presentation), Presented at The Clinical Program for Cerebrovascular Disorders/Stroke Conference, Mount Sinai Medical Center, Manhattan, NY, April 27, 2000.
35. **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.
36. **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.
37. **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.
38. **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.
39. **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.
40. **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.
41. **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.
42. **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):

43. **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.
44. **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.
45. **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.)
46. **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.

PROFESSIONAL ACTIVITIES

Advanced Physician Leadership and Organized Medicine:

Boulder County Medical Society President (BCMS) Term 2012-2013

BCMS Key Business Activities -

- Oversaw 2013-2014 BCMS Physician Directory Revision Project
- Oversaw BCMS Staffing Review – Retained HR consultant and established HR Review Committee
- Spearheaded BCMS Bylaws Revision Project (Last Revision 1992) - Updates/Revisions Pending Research and Executive Committee Review

Established Three New Working Committees of the BCMSExecutive Committee

1. BCMS Technology Committee - Function is to oversee website development and technology needs as well as capital purchases
2. BCMS Membership Communication & Marketing Committee - Function is to oversee Member Communication (Survey Monkey, Website, Snail-Mail, VerticalResponse), and initiate social membership networking (i.e. Wine & Cheese Events, etc.)
3. BCMS Continuing Medical Education Committee - Role of Committee includes Liaison with CMS CME Committee, To Select, Invite, Vet CME Speakers & Venues, Oversee Corporate Support, Oversee CME Applications & CME follow-up Surveys, Issuance of Certificates, Assure ACCME Compliance

Technology Improvements

- Acquired and adopted BCMS' own independent internet technology, access point and firewall security, oversaw implementation of independent router and oversight of capital purchase
- Acquired and implemented Conferencing Technology for Remote Conferencing Capabilities & Participation, Capital Purchase Oversight
- Implemented Virtual Conferencing Capability using Webinar Technology (join.me, et. al.)
- Initiated & implemented Responsible Opt-in e-mail Campaigns Using VerticalResponse
- Initiated Membership Survey (Survey Monkey)
- Initiated IT Support Resources Search

PROFESSIONAL ACTIVITIES

Advanced Physician Leadership and Organized Medicine:

Boulder County Medical Society President (BCMS) Term 2012-2013 (Continued):

BCMS Continuing Medical Education -

- Successfully Spearheaded & Hosted Two Sold Out CME Accredited Events:
 1. "Essential Legal Knowledge ALL Physicians Need – Know It Before You Need It!", Keynote Speakers - John Ogle, MD and Philip Bluestein, Esq, Carelli's "Bottega Di Vino", Boulder, CO, July 12, 2012
 2. BCMS & CMS Hosted “An Evening Under the Umbrellas” with the Kagami Biraki (鏡開き), a traditional Japanese Ceremony performed by Dr. Clara Raquel Epstein, MD FICS, followed by "Welcome to Health Care Reform Accountability; Can Physicians Control Their Own Destiny?", Keynote Speaker - Dennis Waite, MD, MSPH, Kasa Japanese Grill & Bar, Boulder, CO, April 23, 2013
- Acquired future CME interest from numerous community physicians for ongoing CME events

BCMS Community Outreach

- Co-hosted with J. Keith Collins, President of the Boulder County Bar Association *The 2013 Legislative Forum* with Special Invited Guests and Dignitaries (Senator Rollie Heath, Senator Matt Jones, Representative Mike Foote, Representative Dickey Hullinghorst, Representative Claire Levy, Senator Jeanne Nicholson, Representative Dianne Primavera, Representative Jonathan Singer), Jan Kief MD, CMS President and Jerry Johnson, CMS Lobbyist, February 28, 2013, The Boulder Country Club, Boulder, CO.
- Worked with CMS to plan ongoing informal Physician/Legislative Events
- 2013 BCMS & CMS Co-sponsored Membership Marketing Campaign (Invitation Mailings Sent to Eligible Non-member Community Physicians)
- Initiated "How to Create a Resolution for the CMS Reference Committee Toolbox" Project for CMS Reference Committee & CMS House of Delegates

Service to BCMS and to CMS (on Behalf of BCMS)

- 2012 Annual CMS House of Delegates BCMS Reference Committee
- CMS Council on Legislation Representative (COL)
- Council on Ethical and Judicial Affairs (CEJA) Representative
- Liaison to Boulder County Public Health Department
- BCMS Finance and HR Committee Member
- 2013 Spring CMS Conference Attendee and Presidential Host of BCMS' Leadership Annual CMS Spring Dinner, Vail, CO May 3-5, 2013

Ongoing Service to CMS 2012-present

- CMS CEJA Council on Ethical and Judicial Affairs (CEJA) Representative
- CMS COL Council on Legislation Representative, Neurosurgery Representative
- CMS CME Committee Representative

PROFESSIONAL ACTIVITIES

Advanced Physician Leadership and Organized Medicine (Continued):

Colorado Medical Society Continuing Medical Education Co-Chair - Term 2010-2013

- As Chair of the Colorado Medical Society's continuing medical education committee for the past several years, Dr. Epstein spearheaded initial acquisition of ACCME accreditation for Colorado Medical Society, oversaw the CMS CME committee, staff and ongoing CME approval processes, and in December 2013, CMS was honored and awarded a six year renewal of accreditation status with commendation by the ACCME
- Served as the representative to the ACCME for re-accreditation, July 24, 2013. Under Dr. Epstein's leadership as Chair of the Colorado Medical Society's Continuing Medical Education Committee (2010-2013), Colorado Medical Society has been awarded *Accreditation with Commendation by the ACCME* (2013-2019)..

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: \$75,000+ 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.
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. Worked with Mario Ammirati, MD, MBA, 2006-2007.
2. 8-Tesla Ultra High Resolution MRI: Triangulation and Correlation of Microvasculature Within Human Gliomas Using Neuronavigation. Worked with Gregory A. Christoforidis, MD, 2003-2012.
3. Correlation of Microvasculature 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, 2003-2012.
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.
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.

RESEARCH (Continued):

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:

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|--------------|--|
| 2010-Present | Advisory Board, Magis Group, Inc and ONE Freedom, Inc. - 501(c)(3), Train-the-Trainer (T3), Chautauqua, Boulder, CO, February 21-26, 2010 |
| 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 |
| 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. |
| 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 (100 miles/week), Hiking, Weight Training, Running (25 miles/week), Mountain Climbing & Back-country Camping, Snorkeling

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.

Sailing

LANGUAGES:

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