

Robert E. Rosenbaum, MD FAANS FACS

The Metropolitan Neurosurgery Group
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Education

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| Advanced Endoscopic Spinal Fusion Techniques, Joimax | 2014 |
| Cervical Endoscopy, Joimax | 2012 |
| Lumbar Endoscopy Course, Joimax | 2010 |
| Helm's Institute, Medical Acupuncture | 2009 |
| Medical Team Management Patient Safety Instructor course | 2002 |
| Neurosurgery Resident, HMC Hershey, PA | 1999-2002 |
| Neurosurgery Resident, NNMC Bethesda, MD | 1996-1998 |
| Surgery Intern, Naval Medical Center Portsmouth, VA | 1993-1994 |
| Medical College of Virginia, Richmond, VA | 1993 |
| <u>Doctor of Medicine</u> | |
| George Mason University, Fairfax, VA | 1988 |
| <u>BS Industrial/Organizational Psychology</u> | |
| Fork Union Military Academy, Fork Union, VA | 1984 |

Licenses

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| Federal DEA | BR7909394 | Exp 04/30/26 |
| South Dakota Board of Medicine | 11092 | Exp 03/30/25 |
| Maryland Board of Medicine | D76804 | Exp 09/30/25 |
| North Carolina Board of Medicine | 2006-01575 | Exp 12/26/24 |
| Pennsylvania Board of Medicine | MD 419543 | Exp 12/31/24 |
| Tennessee | MD0000066348 | Exp 12/31/24 |
| District of Columbia | MD21000002192 | Exp 12/31/24 |
| Connecticut Board of Medicine | 46447 | Inactive |
| Virginia Board of Medicine | 0101 0151344 | Expired |

Military Service

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| Bethesda Naval Hospital, Bethesda, Maryland | 2004-2013 |
| Kandahar Afghanistan | 2011 |
| Landstuhl Germany | 2008 |
| Katrina Relief USNS | 2005 |
| Okinawa Naval Hospital | 2002-2004 |
| COMREGSUPGRU | 1994-1996 |
| USS Kearsarge | 1994-1995 |

Military Medals and Awards

Surface Warfare Medical Officer Qualified
Defense Meritorious Service
Navy and Marine Corps Commendation
Navy and Marine Corps Achievement
Afghanistan Campaign
Humanitarian Service
Navy "E"
Global War on Terrorism Expeditionary
Armed Forces Services
Sea Service Deployment
Navy and Marine Corps Overseas
National Defense
Expert Rifle and Expert Pistol
Surgeon of the Year - Surgical Energetics Division, Medtronics

Previous Professional Positions

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| Bethesda Naval Hospital, Bethesda, Maryland | 2004-2022 |
| Rapid City Regional Medical Center | 2003-2017 |
| Regional Director of Neurosurgery Southern Afghanistan | 2011 |
| Department Head Okinawa Naval Hospital | 2003-2004 |
| Senior Medical Officer, USS Kearsarge | 1994-1995 |

Member Advisory Board

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| ROM3 Rehab, LLC, Las Vegas, NV | 2017- Present |
| Fruit Street public benefit corporation, NY | 2016- Present |
| Neuverus Health, San Francisco, CA | 2011- Present |

Research and Publications

1. Rosenbaum, R. and Fraser C. Henderson Sr. "Headache with shaking episodes and “brain fog”:
Craniocervical instability with multiple symptoms of cervical medullary syndrome." *Symptomatic* (2024): 181-190.
2. Rosenbaum, R. Low back pain:“My back is always going out”; sacroiliac joint dysfunction." *Symptomatic* (2024): 303-310.
3. Henderson F, Rosenbaum R, Rowe P, Francomano C et al. "Refractory syncope and presyncope associated with atlantoaxial instability: preliminary evidence of improvement following surgical stabilization." *World neurosurgery* 149 (2021): e854-e865.
4. Henderson F, Rosenbaum R, Rowe P, Francomano C et al. "*Atlanto-axial rotary instability (Fielding type I): characteristic clinical and radiological findings, and treatment outcomes following alignment, fusion, and stabilization.*" *Neurosurgical review* 44 (2021): 1553-1568.
5. Henderson F, Rosenbaum R, Narayanan M, et al. *The Neurosurgical Intraoperative Checklist for Surgery of the Craniocervical Junction and Spine.* *Cureus*, 12(4): e7588. doi:10.7759/cureus.7588 (April 08, 2020)
6. Henderson F, Rosenbaum R, Narayanan M, et al. *Optimizing Alignment Parameters during Craniocervical Stabilization and Fusion: A Technical Note.* *Cureus* 12(3): e. doi:10.7759/cureus.7160 (March 2, 2020)
7. Hubbard, Z.S., Henderson, F., Armonda, R.A., Spiotta, A.M. and Rosenbaum, R., 2018. The shipboard Beirut terrorist bombing experience: a historical account and recommendations for preparedness in events of mass neurological injuries. *Neurosurgical focus*, 45(6), p.E18.
8. Principle investigator, “Effect of Usual Medical Care Plus Chiropractic JAMA, 2018 Care vs Usual Medical Care Alone on Pain and Disability Among US Service Members with Low Back Pain A Comparative Effectiveness Clinical Trial”
9. Sadaie, M.R., Farhoudi, M., Zamanlu, M., Aghamohammadzadeh, N., Amouzegar, A., Rosenbaum, R.E. and Thomas, G.A., 2018. What does the research say about androgen use and cerebrovascular events?. *Therapeutic advances in drug safety*, 9(8), pp.439-455.
10. Featured in The Journal NSA Bethesda, “American Red Cross Professional Volunteers” 2015, Volume 27, No. 12
11. Primary Investigator, Assessment of Chiropractic Treatment (ACT) Palmer Chiropractic College for the Department of Defense 2009-2015

12. Samiy, N., Thomas, G.A., Rosenbaum, R.E. and Sadaie, R., 2014. Glucocorticosteroids: risk-benefit appraisals in multiple sclerosis and MS-associated optic neuritis. *Journal of Experimental and Clinical Neurosciences*, 1(1), pp.3-12.
13. Sadaie, R., Samiy, N., Rosenbaum, R.E. and Thomas, G.A., 2014. Steroids impact on myelin repair, neurogenesis and visual pathway in multiple sclerosis: preclinical perspectives. *Journal of Experimental and Clinical Neurosciences*, 1(1), pp.13-20.
14. Featured, "Improving Back Pain," two-part television segment aired annually. Navy and Marine Corps News, Armed Forces Network. 2003-2011
15. Featured in Stars and Stripes, "Neuro Clinic Helps Ease Neck, Back Pain," 2003, Volume 63, No.138
16. Author, "Fungal Infections in the Spine, “Infections in Neurological Surgery” Lippincott 1999
17. Co-Author, "Anxiety and Depression, Effects on Perception”, APA National Congress presentation 1987

Teaching Activities and Presentations

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| Speaker, “Don’t Misdiagnose Hypermobility Patients Upper Cervical Instability” Parker Seminars, Las Vegas, NV | 2024 |
| Speaker, “Cranio-cervical Junction Instability” Neurocon Dallas, TX | 2023 |
| Speaker, “Central Canal stenosis” Parker Seminars Las Vegas, NV | 2023 |
| Speaker, “Occipito-cervical fusion improves pain and disability in EDS/HSD patients with cranio-cervical instability.” International Scientific Symposium on EDS Rome, Italy | 2022 |
| Speaker, “Lumbar Stenosis: identifying and treating millions” Parker Seminars Orlando, FL | 2022 |
| Speaker, “Dysautonomia: a shared patient population” Neurocon Dallas, TX | 2020 |
| Speaker, “Collaboration Chiropractors and Neurosurgeons” The National, Orlando, FL | 2019 |
| Speaker and Panelist, “Chiropractic care in the Military” The National, Orlando, FL | 2019 |
| Key Note Speaker, Parker University College of Chiropractic Commencement | 2019 |

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| Key Note Speaker, Parker University Colleges of Business of Health and Health Sciences Commencement | 2019 |
| Speaker, “Craniocervical Instability and you” Parker Seminar Las Vegas, NV | 2019 |
| Speaker, “Collaboration: Chiropractic & Neurosurgery” Parker Seminars Baltimore, MD | 2017 |
| Opening Speaker, “Penetrating Head Injuries”, 9 th Annual Erlanger Trauma Symposium, TN | 2016 |
| Plenary speaker, "Integrated care for better patient outcomes" Texas Chiropractic College Annual Meeting Houston, TX | 2012 |
| Congressional reception keynote speaker, American Chiropractic Association National Chiropractic Legislative Conference, Capitol Hill | 2012 |
| Lecturer, “Battlefield Head Injuries” US Multinational Trauma Conference Kandahar, Afghanistan | 2011 |
| Speaker, “Neuroradiology and the Pediatric Patient,” 9 th Annual Neuroscience Conference Hershey, PA | 2002 |
| Opening Speaker, “Neuroanatomy and the Pediatric Patient,” 8 th Annual Neuroscience Conference Hershey, PA | 2001 |

Professional Societies and Memberships

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| Member of Board of Directors, Parker University | 2017-present |
| Fellow, American College of Surgeons | 2014-present |
| Senior Member, NNMC WRNMMC Ethics committee | 2004-present |
| Fellow, American Association of Neurologic Surgeons | 2004-present |
| Member, North American Spine Society | 2016-present |
| President, Board of Directors, Warrior Canine Connection | 2014-2016 |
| Member of Board of Directors, Warrior Canine Connection | 2011-2016 |
| Member of Board of Directors, People Animals Love | 2005-2015 |
| Member, Congress of Neurologic Surgeons | 2000-2004 |
| Member, Pennsylvania Medical Society | 2000-2003 |
| Member, American Medical Association | 1989-2002 |
| Member, Virginia Medical Society | 1993-1998 |
| Member, Medical College of Virginia Admissions Committee | 1992-1993 |

Patents/Trademarks

Patent No. - 10238166

Patent No. - 9375040

Trademark Reg. No. - 7,430,709