

Sean Markey, M.D.
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PROFESSIONAL SUMMARY

Board-certified neurosurgeon with extensive experience in cranial and spine surgery, neuro-trauma leadership, and hospital program development. Proven expertise in advancing trauma systems, developing neurovascular programs, and delivering comprehensive neurosurgical care. Experienced educator, researcher, and speaker with a longstanding commitment to excellence in patient care, resident education, and innovation in neurosurgery.

PROFESSIONAL EXPERIENCE

Rocky Mountain Brain Care Specialists, LLC

Provider and Neurosurgical Consultant | 2021–Present

- Diagnose and treat patients with traumatic brain and spine injuries
- Provide comprehensive evaluation and management of traumatic neurological conditions
- Perform cost analysis and future care assessments for attorneys and legal proceedings
- Provide expert testimony related to traumatic brain and spine injuries
- Collaborate with legal and medical professionals regarding injury causation, treatment, and long-term outcomes

Neurosurgical and Spine Specialists

Neurosurgeon | 2007–Present

- Practice general neurosurgery with a focus on cranial and spine procedures
- Provide comprehensive operative and non-operative neurosurgical care
- Director of Neurosurgery and Neuro-Trauma, Parker Adventist Hospital
- Assisted in transition from Level III Trauma Center to Level II Trauma Center

South Denver Neurosurgery

Neurosurgeon | 2003–2007

- Practiced general neurosurgery with emphasis on cranial and spine surgery
- Director of Neurosurgery and Neuro-Trauma, Littleton Adventist Hospital
- Assisted in transition from Level III Trauma Center to Level II Trauma Center
- Developed and implemented a neurovascular program

EDUCATION AND TRAINING

University of Colorado Health Sciences Center

Neurosurgical Residency | 1998–2003

ACGME-accredited Neurosurgery Residency Program

University of Colorado Health Sciences Center

Surgical Internship – General Surgery | 1997–1998

University of Colorado Health Sciences Center

Doctor of Medicine (M.D.) | 1993–1997

Western State College

Bachelor of Arts in Biology, Magna Cum Laude | 1989–1993

- Chairman, Student Advisory Board for Honors Program
- Dean's List, 1989–1993

BOARD CERTIFICATION AND LICENSURE

- American Board of Neurological Surgery (ABNS) – Board Certified
- United States Medical Licensing Examination (USMLE) Steps I–III
- Written Neurosurgical Board Examination

SPECIALIZED TRAINING AND CERTIFICATIONS

- Gamma Knife Certification – Cleveland Clinic (2007)
- Synthes ProDisc-C Certification (2008)
- Synthes ProDisc-L Certification (2007)
- Laser Procedure Training
- SI Joint Fusion Training (2023)

PROFESSIONAL MEMBERSHIPS

- Alpha Omega Alpha Honor Medical Society
- American Association of Neurological Surgeons (AANS)
- Congress of Neurological Surgeons (CNS)
- North American Spine Society (NASS)

HONORS AND AWARDS

- Alpha Omega Alpha Honor Medical Society
- University of Colorado Health Sciences Center – Teaching Excellence Recognition
- Denver's 5280 Top Doctors Recipient (2005, 2007)
- Multiple Patient Choice Awards

SPEAKING AND TEACHING ENGAGEMENTS

- Glioblastoma Surgical Resection as Primary Treatment
- Acromegaly: Surgical Resection as Primary and Curative Treatment
- Medical Management as Primary Treatment for Sagittal Sinus Thrombosis
- Non-Operative Management for Low-Grade Gliomas
- Non-Surgical Treatment of Discogenic Back Pain
- Management of Traumatic Brain Injuries
- Pre-Hospital Treatment of Head and Spine Injuries
- Metastatic Brain Tumor Treatment
- Guest Speaker and Featured Speaker for Western State College Graduating Class
- AO Spine Faculty – Resident and Fellow Training
- Physical Therapy Student Gross Anatomy Teaching Assistant
- Medical Student Clinical Training

RESEARCH AND PUBLICATIONS

- The Development of Rotational Fluoroscopy as a Reliable and Accurate Method of Spinal Image Guidance
- Aneurysmal Bone Cyst: A Novel Treatment Strategy and Case Report
- Aberrant Origin of the Ophthalmic Artery (Case Report)
- Phospholipase A in Head Injuries
- Early Decompressive Craniectomies: Implications in Survival and Outcome
- Metastatic Brain Disease Predictive Study
- Increased Levels of Carotenoid Pigment in High Altitude Aquatic Organisms as a Mechanism of UV Radiation Protection