



**SIERRA**  
NEUROSURGERY  
GROUP

*Expert Care for Brain, Spine  
& Pain Management*

## **Michael Kevin Moore, MD**

### **Education and Professional Experience:**

August 2019 – Present	Neurosurgeon Sierra Neurosurgery Group Reno, Nevada
July 2018 – June 2019	Cerebrovascular and Skull Base Fellow Department of Neurosurgery (Sekhar, Ferreira) University of Washington
July 2017 – June 2018	Chief Resident Department of Neurosurgery Emory University
July 2016 – June 2017	Spine Fellow Department of Neurosurgery (Rodts, Refai, Gary) Emory University
July 2015 – June 2016	Neurocritical Care Fellow (UCNS Board Eligible 2018) Department of Neurosurgery (Samuels) Emory University
July 2011 – June 2018	Resident Physician, Department of Neurosurgery Emory University
July 2007 - April 2011	Doctor of Medicine Case Western Reserve University School of Medicine
July 2005 - June 2007	Master of Science, Applied Anatomy Case Western Reserve University
July 2001 - June 2005	Bachelor of Science, History and Biochemistry (Honors) Georgetown University

### **Certifications:**

June 2018	Oral Board Eligible, American Board of Neurological Surgery
June 2018	Neurocritical Care Board Eligible, UCNS
2015	Written Boards Passed, American Board of Neurological Surgery
Passed Steps 1, 2, and 3	United States Medical Licensing Exam



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### **Awards:**

- |      |   |
|------|---|
| 2015 | Georgia Neurosurgical Society, Resident Research Award  |
| 2011 | Herbert S Steuer Memorial Award for Work in Anatomy<br>Case Western Reserve University School of Medicine |
| 2008 | 1st place Winner, Lepow Research Symposium,<br>Case Western Reserve University School of Medicine         |

### **Hospital Affiliations**

Saint Mary's Regional Medical Center, Reno, Nevada  
Renown Regional Medical Center, Reno, Nevada  
Northern Nevada Medical Center, Sparks, Nevada

### **Medical Licensure**

Nevada  
Washington

### **Organizations:**

American Association of Neurological Surgeons, Member

### **Research Experience:**

July 2016- December 2018

#### *Spine Fellowship Research*

- 1) Retrospective Chart Review on Native or Prosthetic Spinal Infections Treated with Retained Hardware. We are currently conducting a study to examine the role of antibiotics and the required duration of therapy in patients who are infected and cannot be explanted. No consensus data exists on this topic.
- 2) Retrospective review of vertebral osteomyelitis outcomes after debridement and hardware placement: comparison of Peek vs titanium vs allograft. We hope to determine if a superior material exists for post debridement constructs in the clearance of osteomyelitis of the spine.
- 3) Cortical trajectory TLIFs Vs posterolateral fusions: a retrospective cohort study. This studies aim is a comparison of intra-op, postoperative outcomes, and fusion rates of these two methods.



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July 2016- June 2018

*(Critical Care research)* Physiologic reduction of CSF output in SAH patients through the use of Acetazolamide. This phase one study is currently pending IRB approval. The aim is to develop a rescue therapy for patients with obstructive hydrocephalus after SAH. Patient with EVDs after SAH in Emory's NICU will be enrolled in a controlled dose escalation and toxicity study to determine therapeutic effect of acetazolamide. Historical trials for patients with shunted obstructive hydrocephalus have shown significant drops in CSF production >50% with continued use of high dose acetazolamide. This inexpensive and commonly available medication could provide SAH without access to immediate CSF diversion a medical intervention (rescue therapy) for obstructive hydrocephalus while in transit to a facility with neurosurgical support.

2016

Author of Minimal Brain Injury (MBI) Guidelines for Grady Memorial Hospital (GMH). It is not uncommon for GMH to have 10 MBI patients in a single night utilizing significant ICU and imaging resources. Recently, several centers have moved towards de-escalation of care in some individuals.

In an effort to maximize resources and stay current, a new guideline for isolated minor head trauma was written for GMH based on the most current literature. This de-escalation of care for appropriate patients will reduce the SICU and imaging center utilization. In addition, hospital cost and patient cost should be reduced.

2011

Investigations utilizing the Emory Neurocritical Care Subarachnoid Hemorrhage (SAH) database: Emory has an extensive database of all SAH patients treated in the hospital system. We are examining the 251 angio negative SAH patients, analyzing their outcomes based on bleeding patterns, morbidities, TCDs, and developing cost benefit analyses of different possible treatment plans.

2009

Laboratory of Dr. Jonathan Miller at Case Western Reserve University: Wave form studies in mild traumatic brain injury (MTI). Four month research rotation using electrode arrays and tetrodes to study the neurophysiology of the hippocampus in the MTI state in rats.

July 2007- June 2009

Laboratories of Dr. Hart and Dr. Tabib-Azar at Case Western Reserve University: R&D microsensor development for use in spinal biophysiology. Two years of engineering, anatomy studies with human cadaver spine segments, and product development.

July 2004- June 2005

Laboratory of Stephen Metallo Ph.D. – Department of Chemistry Biochemistry Honors Program at Georgetown University: Project – Effect of molecular crowding on protein conformation. Three semesters of mentored research, course work and thesis.



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June-July 2004

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Edward M. Chester Summer Scholar, Cleveland OH  
MetroHealth Hospital/Case Western Reserve University.

### Publications:

#### *Manuscripts:*

Malcolm J, **Moore M**, Refa D. Cortical Trajectory Screw Placement for Transforaminal Lumbar Interbody Fusion. *Annals of Neurosurgery*. 2017 May; Vol 1 Issue 1 Article 1002.

Sribnick E, Sarda S, **Moore M**, Capasse M, Tubbs RS, Wrubel D, Chern JJ. Clinical outcome of children with suspected shunt malfunction evaluated in the emergency department. *Neurosurgery*. 2015 Jun;76(6):695-9. doi: 10.1227/NEU

Sarda S, **Moore MK**, Chern JJ. Letter to the Editor: Readmission and reoperation after shunt surgery. *J Neurosurg Pediatr*. 2015 May;15(5):544-5. doi: 10.3171/2014.9.PEDS14459. Epub 2015 Feb 6.

Owonikoko TK, Arbiser J, Zelnak A, Shu HK, Shim H, Robin AM, Kalkanis SN, Whitsett TG, Salhia B, Tran NL, Ryken T, **Moore MK**, Egan KM, Olson JJ. Current approaches to the treatment of metastatic brain tumours. *Nat Rev Clin Oncol*. 2014 Apr;11(4):203-22. doi: 10.1038/nrclinonc.2014.25. Epub 2014 Feb 25. Review.

**Moore MK**, Fulop S, Tabib-Azar M, Hart DJ. Piezoresistive pressure sensors in the measurement of intervertebral disc hydrostatic pressure *Spine J*. 2009 Dec;9(12):1030-4

Jackowe DJ, **Moore MK**, Bruner AE, Fredieu JR. New insight into the enigmatic white cord in Rembrandt's The Anatomy Lesson of Dr. Nicolaes Tulp (1632). *J Hand Surg Am*. 2007 Nov;32(9):1471-6.

#### *Book Chapters:*

D. Ryan Ormond<sup>1</sup> , Alexandros Bouras<sup>2</sup> , **Michael Moore**<sup>3</sup> , Matthew Gary<sup>4</sup> , Paula Province Warren<sup>5</sup> , Roshan Prabhu<sup>6</sup> , Kathleen M. Egan<sup>7</sup> , Srikant Rangaraju<sup>4</sup> , Christina Appin<sup>8</sup> , Constantinos Hadjipanayis<sup>2</sup> , Burt Nabors<sup>5</sup> , Alfredo Voloschin<sup>9</sup> , and Jeffrey J. Olson<sup>3</sup> *The American Cancer Society's Oncology in Practice: Clinical Management: Chapter 40 Central Nervous System and Peripheral Nerves (submitted 2018)*



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### *Spine Book Chapter*

#### *Abstracts:*

Georgia Neurological Society Meeting, Spring 2016

The effects of acetazolamide on CSF production in SAH patients

Georgia Neurological Society Meeting, Spring 2015

Suggestions for treatment de-escalation on patients with angiographically negative SAH

Georgia Neurological Society Meeting, Fall 2014

Can Children with Shunted Hydrocephalus be Safely Discharged from Emergency Department?

Georgia Neurological Society Meeting, Fall 2013

Angio negative SAH: distribution of blood and its correlation to clinical outcome.

Georgia Neurological Society Meeting, Fall 2012

Hemorrhagic Vestibular Schwannoma: A Review of Management.

IMD international conference invited speaker, 2008:

Biocompatible and Matched Piezo Resistive Polymeric Films for Implantable Telemetric Force Sensors for In Vivo Spinal Biochemical Measurements.

Lepow Research Symposium, CWRU Poster presentation (1st place Winner) :

Piezoresistive pressure sensors in the measurement of intervertebral disk hydrostatic pressure.

Edward M. Chester Summer Scholar poster fair (2004): Comparison of complications of intramedullary nail vs. plate fixation of distal tibial fractures.