

# RORY MAYER, M.D.

6080 North Central Expressway  
Suite 150  
Dallas, TX 75206  
Phone: (214) 823 2052  
Email: rory.mayer@gmail.com



## CLINICAL TITLES AND AFFILIATION

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Primary Appointment Staff Neurosurgeon Texas Neurosurgery, LLP, Dallas, TX.	<i>8/2020-present</i>
Affiliate Hospitals Baylor Scott and White Health – Baylor University Medical Center Baylor Scott & White Medical Center Uptown Methodist Hospital for Surgery	<i>8/2020-present</i>

## PREVIOUS EMPLOYMENT

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Staff Neurosurgeon Department of Neurosurgery MarinHealth Medical Center – UCSF Health, Greenbrae, CA	<i>6/2019-6/2020</i>
Clinical Instructor Department of Neurosurgery University of California San Francisco, San Francisco, CA	<i>6/2019-6/2020</i>

## EDUCATION

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University of California San Francisco, San Francisco, CA	<i>6/2019-6/2020</i>
▪ Fellowship – Complex and Minimally Invasive Spine Surgery <ul style="list-style-type: none"><li>○ Committee on Advanced Subspecialty Training (CAST), Society of Neurological Surgeons</li><li>○ Neurosurgery Research and Education Foundation (NREF)</li><li>○ Orthopedic and Neurosurgical Spine Surgery</li><li>○ Directors: Dean Chou, MD; Praveen Mummaneni, MD</li></ul>	
Baylor College of Medicine, Houston, TX	<i>6/2012-6/2019</i>
▪ Fellowship - Neurocritical Care <ul style="list-style-type: none"><li>○ Committee on Advanced Subspecialty Training (CAST) certified</li><li>○ Society of Neurological Surgeons</li><li>○ Director: Shankar Gopinath, MD</li></ul>	
University of Texas MD Anderson Cancer Center, Houston, TX	<i>10/2013-6/2019</i>
▪ Additional Subspecialty Training <ul style="list-style-type: none"><li>○ Neurosurgical Oncology and Spine Tumor Surgery</li><li>○ Directors: Ganesh Rao MD; Laurence Rhines MD</li></ul>	
Baylor College of Medicine - Affiliated Hospitals Residency Program, Houston, TX	<i>6/2012-6/2019</i>

- Resident Physician, Neurological Surgery

#### Affiliate Hospitals

- The University of Texas MD Anderson Cancer Center, Houston, TX
- Texas Children's Hospital, Houston, TX
- Ben Taub General Hospital, Houston, TX
- Michael E. DeBakey Center for Veterans Affairs, Houston, TX
- Baylor St. Luke's Medical Center, Houston, TX

Texas Children's Hospital, Houston, TX 3/2015-6/2018

- Additional Subspecialty Training
  - Pediatric Spinal Deformity – Orthopedic and Neurosurgical Spine Surgery
  - Directors: Andrew Jea MD; Benny Dahl MD PhD

Baylor College of Medicine, Houston, TX 7/2015-7/2015

- Fundamentals of Clinical Investigation, Clinical Scientist Training Program

Baylor College of Medicine, Houston, TX 7/2008-5/2012

- Degree: Doctor of Medicine, 2012

University of Texas at Austin, Austin, TX 1/2005-5/2007

- B.S. Biological Sciences, Neurobiology with *Honors*

Universität Wien, Vienna, Austria 5/2006-9/2006

- Guest Research Fellow
  - Research Programme - RNA Biology
  - Director: Michael Jantsch, PhD

Boston College, Chestnut Hill, MA 8/2003-12/2004

- Majors: Biology and Biochemistry

## PUBLICATIONS

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### Published/Accepted manuscripts—

1. Duan PG, Mummaneni PV, Berven SH, Mayer RR, Ruan HB, Chang CC, Chou D. Revision surgery for adjacent segment degeneration after fusion for lumbar spondylolisthesis: is there a correlation with Roussouly type? *Spine (Philly Pa 1976)*. 2020.
2. Burke J, Chan A, Mayer RR, Garcia J, Pennicooke B, Mann M, Berven SH, Chou D, Mummaneni PV. Clamshell Thoracotomy for En Bloc Resection of 3-Level Thoracic Chordoma: Technical Note and Operative Video. *Neurosurgical Focus*. Sept 2020.
3. Vedantam A, Verla T, Mayer RR, Raber MR, Ropper AE. Use of an open-frame hinged surgical table to restore segmental lumbar lordosis after posterior column osteotomy. *Int J Spine Surg*. 12 June 2020.
4. Wang M, Mummaneni PV, Zhuo X, Chang CC, Rivera J, Guinn J, Mayer RR, Chou D. Lower Hounsfield Units on Computed Tomography are Associated with Cage Subsidence after Anterior Cervical Discectomy and Fusion. *Neurosurg Focus*. June 2020.
5. Duan PG, Mummaneni PV, Wang M, Chan AK, Li B, Mayer RR, Berven S, Chou D. Obesity may be associated with adjacent segment degeneration after single level TLIF in spinopelvic mismatched patients with minimum 2-year follow-up. *Journal of Neurosurgery Spine*. June 2020.
6. Duan P, Guinn JMV, Pennicooke B, Mehra RN, Chang CC, Mayer RR, Wang M, Eichler C, Mummaneni PV, Chou D. Anterior Lumbar Interbody Fusion (ALIF): Technique Video: 2-Dimensional Operative Video. *Oper Neurosurg (Hagerstown)*. 2020 May 18.
7. Guinn JMV, Mayer RR, Auguste K, Tihan T, Chou D. Extradural Thoracic Meningeal Cyst Without Spinal Dysraphism Causing Adult Myelopathy: Case Illustration and Review of the Literature. *Journal of Clinical Neuroscience*. 2020 Jun 26:S0967-5868(20)30844-4.

8. Guinn JMV, Mayer RR, Chou D. Open Door Laminoplasty - Hinge Creation and Fracture Avoidance: 2-Dimensional Operative Video. *Oper Neurosurg (Hagerstown)*. 2020 Apr 3.
9. Badiee RK, Mayer R, Pennicooke B, Chou D, Mummaneni PV, Tan LA. Complications following posterior cervical decompression and fusion: a review of incidence, risk factors, and prevention strategies. *J Spine Surg*. 2020 Mar;6(1):323-333.
10. Debnam JM, Said RB, Liu HH, Sun J, Wang J, Wei W, Suki D, Mayer RR, Chi TL, Ketonen L, Guha-Thakurta N, Weinberg JS. Ventricular apparent diffusion coefficient measurements in patients with neoplastic leptomeningeal disease. *Cancer Imaging*. March 2020.
11. Winward C, Mayer RR, Mummaneni PV, Chou D. Oblique lumbar interbody fusion with stereotactic navigation: technical note. *Global Spine Journal*. 2020 [issue pending].
12. Zhuo Xi, Burch S, Mummaneni PV, Mayer RR, Eichler C, Chou D. The effect of obesity on perioperative morbidity during oblique lumbar interbody fusion. *J Neurosurg Spine*. 2020 Mar 27:1-8.
13. Chan A, Mayer RR, Mummaneni PV, Chou D. Conjoined Nerve Root: Case Illustration. *J Neurosurg Spine*. 2020 Jan 24:1-2.
14. Vedantam A, Verla T, Mayer RR, Raber MR, Ropper AE. Closure of Posterior Osteotomies via an Open Bottom Hinged Table. *International Journal of Spine Surgery*. 2019 Dec
15. Chih-Chang C, Mummaneni PV, Rivera J, Mayer RR, Chou D. Closure of L3 Pedicle Subtraction Osteotomy via an Open Bottom Hinged Table in 3-D Video. *Neurosurg Focus*. 2020 Jan.
16. Sellin JN, Mayer RR, Hoffman M, Ropper AE. Simultaneous lateral interbody fusion and pedicle screws (SLIPS) with CT-guided navigation. *Clin Neurol Neurosurg*. 2018 Oct 23;175:91-91.
17. Verla T, Winnegan L, Mayer RR, Cherian J, Yaghi N, Palejwala A, Omeis I. Minimally invasive transforaminal versus direct lateral lumbar interbody fusion: Effect on return to work, narcotic usage and quality of life. *World Neurosurgery*. 2018 Aug;116:e321-e328.
18. SK Lam, Mayer RR, Vedantam A, Staggars K, Harris DA, Pan IW. Readmission and complications within 30 days after baclofen pump placement. *Developmental Medicine & Child Neurology*. 2018 Oct;60(10):1038-1044.
19. Debnam JM, Mayer RR, Chi TL, Ketonen L, Weinberg JS, Wei W, Groves MD, Guha-Thakurta N. Most common sites on MRI of intracranial neoplastic leptomeningeal disease. *J Clin Neurosci*. 2017 Nov;45:252-256.
20. Lam SK, Mayer RR, Verla T, Luerssen T, Pan I. The July Effect in Pediatric Neurosurgery. *Child's Nervous System*, 2017 Aug;33(8):1367-1371.
21. Mayer RR, Frankfort BJ, Strickland BA, Debnam JM, McCutcheon IE, Groves MD, Weinberg JS. Leptomeningeal metastases presenting exclusively with ocular disturbance in 34 patients: a tertiary care cancer hospital experience. *J Clin Neurosci*. 2017 Feb 16.
22. Khan NR, VanLandingham MA, Fierst TM, Hymel C, Hoes K, Evans LT, Mayer RR, Barker F, Klimo P. Should Leviteracetam Or Phenytoin Be Used For Post-Traumatic Seizure Prophylaxis? A systematic review of the literature and meta-analysis. *Neurosurgery*. 2016 Dec;79(6):775-782.
23. Lam SK, Mayer RR, Luerssen TG, Pan I. Hospitalization Cost of Chiari Malformation Type 1 Surgery in Pediatric Patients. *J Pediatr*. 2016 Sep 21.
24. Verla T, Fridley JS, Khan AB, Mayer RR, Omeis I. Neuromonitoring for Intramedullary Spinal Cord Tumor Surgery. *World Neurosurgery*. 2016 Nov;95:108-116.
25. Vedantam A, Mayer RR, Staggars KA, Harris DA, Pan I, Lam SK. Thirty-day outcomes for posterior fossa decompression in children with Chiari type 1 malformation from the US NSQIP-Pediatric database. *Child's Nervous System*. 2016 Nov;32(11):2165-2171.
26. Cherian J, Mayer RR, Omeis I. Contribution of Lordotic Correction on C5 Palsy Following Cervical Laminectomy and Fusion. *Neurosurgery*. 2016 Jan 20.
27. Lin Y, Pan IW, Mayer RR, Lam S. Complications after craniostylosis surgery: comparison of the 2012 Kids' Inpatient Database and Pediatric NSQIP database. *Journal of Neurosurgery: Neurosurgical Focus*. *Neurosurg Focus*. 2015 Dec;39(6):E11.
28. Papasozomenos H, Rohren E, Guha-Thakurta N, Mayer RR, Weinberg JS, Debnam JM. Association between 18F-FDG PET/CT and MRI appearance of spinal leptomeningeal disease before and after treatment at a tertiary referral center. *Journal of Solid Tumors*, August 2015.
29. Lam SK, Niedzwecki CM, Daniels B, Mayer RR, Vakharia MM, Jea A. Acute Spinal Cord Injury Associated With Multilevel Pediatric Idiopathic or Inflammatory Intervertebral Disk Calcification (PIIVDC). *J Neurosurg Pediatr*. 2015 Oct 16:1-5.

30. Lam S, Reddy GD, Mayer RR, Lin Y, Jea A. Eosinophilic Granuloma/Langerhans Cell Histiocytosis: Pediatric Neurosurgery update. *Surg Neurol Int.* 2015 Oct 7;6(Suppl 17):S435-9.
31. Szvalb AD, Raad II, Weinberg JS, Suki D, Mayer RR, Viola GM. Ommaya reservoir-related infections: Clinical manifestations and treatment outcomes. *J Infect.* 2014 Mar;68(3):216-24.
32. Debnam JM, RR, Esmali B, Weinberg JS, Demonte F, Guha-Thakurta N. Three-Dimensional MDCT for Anatomic Evaluation of Orbital Tumors. *J Ophthalmol.* 2013;2013:674230.
33. Moses ZB, Mayer RR, Strickland BA, Kretzer RM, Wolinsky JP, Gokaslan ZL, Baaj AA. Neuronavigation in Minimally Invasive Spine Surgery. *Neurosurg Focus.* 2013 Aug;35(2):E12.
34. Mayer RR, Hwang SW, Reddy GD, Morales DL, Whitehead WE, Curry DJ, Bollo RJ, Luerksen TG, Jea A. Neurosurgical complications of ventricular assist devices in children. *J Neurosurg Pediatr.* 2012 Nov;10(5):370-5.
35. Mayer RR, Warmouth G, Gopinath SG, Troxell M, Adekunle M, Kass J. Glioblastoma Multiforme of the Conus Medullaris in a 28 year old Female: A Case Report and Review of the Literature. *Clinical Neurology and Neurosurgery.* *Clin Neurol Neurosurg.* 2012 Apr;114(3):275-7.

#### **Book chapters, monographs—**

1. Patel A, Burke JF, Haddad A, Mayer RR, Mummaneni PV. Cervicothoracic Deformity: The Role of Anterior Surgery. Steinmetz: *Benzel's Spine Surgery, 5<sup>th</sup> Edition*, Ed(s) Benzel EC, Steinmetz M, Berven SH. Philadelphia, PA: Elsevier 2020. [pending]
2. Guinn JMV, Ammanuel S, Mayer RR, Safae MM, Mummaneni PV. Dorsal Subaxial Cervical Instrumentation Techniques. Steinmetz: *Benzel's Spine Surgery, 5<sup>th</sup> Edition*, Ed(s) Benzel EC, Steinmetz M, Berven SH. Philadelphia, PA: Elsevier 2020. [pending]
3. Mayer RR, Chou D. International Comparisons in Neurosurgical Management: Spine. Ed(s) Clifton B, Abode-Iyamah K. Philadelphia, PA: Elsevier 2020. [pending]
4. Mayer RR, Chou D. Indications. In: *Revision Lumbar Spine Surgery, 1st Edition*, Ed(s) Heary RF, Benzel EC. Philadelphia, PA: Elsevier 2020. [pending]
5. Mayer RR, Chou D. Oblique Lateral Interbody Fusion. In: *Robotic and Navigated Spine Surgery, 2<sup>nd</sup> Edition*, Ed(s) Veeravagu A, Wang M. Philadelphia, PA: Elsevier; 2020. [pending]
6. Mayer RR, Omeis I. Modic Changes. Black disk with advanced modic changes. In: *Neurosurgery Case Review, 2<sup>nd</sup> Edition*, Ed(s) Nader R, Sabbagh A. New York, NY: Thieme; 2016.
7. Mayer RR, Jea A. Congenital Anomalies of the Spine. In: *Handbook of Spine Surgery*, Ed(s) Baaj AA, Mummaneni P, Uribe JS, Vaccaro AR, Greenberg MS. New York, NY: Thieme; 2011.

#### **Submitted Manuscripts—**

1. Vega R, Mayer RR, Sellin J, Fahim D, Suki D, McCutcheon IE, Rao G, Tatsui C, Rhines L. Long-term Durability of Polymethylmethacrylate Vertebral Body Reconstructions after Vertebrectomy in 580 Cancer Patients. *Journal of Neurosurgery Spine.* 2020.
2. Strickland BA, McCutcheon IE, Suki D, Mayer RR, Debnam JM, Sawaya R, Weinberg JS. Ventricular entry and postoperative leptomeningeal disease after resection of supratentorial glioblastoma. *Neuro-Oncology Practice.* 2020.
3. Haddad A, Burke J, Mummaneni PV, Chan A, Safae M, Knightly J, Mayer RR, Pennicooke B, DiGiorgio A, Weinstein P, Clark A, Chou D, Dhall S. Telemedicine in Neurosurgery: Standardizing the Spinal Physical Examination Using A Modified Delphi Method. *Neurosurgical Focus.* 2020.
4. Guinn J, Mayer RR, Wustrack R, Li B, Chou D. En bloc excision of sacro-iliac chondrosarcoma. *Journal of Clinical Neuroscience.* 2020.

#### **Abstracts—**

1. Xi Z, Burch S, Mummaneni PV, Eichler C, Mayer RR, Chou D. The Effect of Obesity on the Perioperative Morbidity of Oblique Lumbar Interbody Fusion. *International Meeting on Advanced Spine Techniques (IMAST), 27<sup>th</sup> Annual Meeting, Athens, Greece, April 1-4, 2020.*
2. Wang M, Hawryluk G, Lau D, Mayer RR, Mehra R, Chou D. Full correction or limited decompression and fusion in adult scoliosis surgery: differences in back and leg pain alleviation and morbidity. *International Meeting on Advanced Spine Techniques (IMAST), 27<sup>th</sup> Annual Meeting, Athens, Greece, April 1-4, 2020.*



3. Xi Z, Burch S, Mummaneni PV, Eichler C, Mayer RR, Chou D. The Effect of Obesity on the Perioperative Morbidity of Oblique Lumbar Interbody Fusion. International Meeting on Advanced Spine Techniques (IMAST), 27<sup>th</sup> Annual Meeting, Athens, Greece, April 1-4, 2020.
4. Duan PG, Mummaneni PV, Berven SH, Mayer RR, Ruan HB, Chang CC, Chou D. Revision surgery rates after L4-5 TLIF for spondylolisthesis: is there a correlation with Roussouly type? International Meeting on Advanced Spine Techniques (IMAST), 27<sup>th</sup> Annual Meeting, Athens, Greece, April 1-4, 2020.
5. Duan PG, Mummaneni PV, Wang M, Chan AK, Li B, Mayer RR, Berven S, Chou D. Obesity may be associated with adjacent segment degeneration after single level TLIF in spinopelvic mismatched patients with minimum 2-year follow-up. Spine Summit 2020 – 36<sup>th</sup> Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV, March 5-8, 2020.
6. Mayer RR, Mummaneni PV, Chan AK, Bisson EF, Rivera J, Pennicooke B, Fu K, Park P, Bydon M, Glassman SD, Foley KT, Shaffrey CI, Potts EA, Shaffrey ME, Coric D, Knightly JJ, Wang MY, Slotkin JR, Asher AL, Haid RW, Chou D. Does Meyerding slippage reduction in spondylolisthesis correlate with patient outcomes? Spine Summit 2020 – 36<sup>th</sup> Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV, March 5-8, 2020.
7. Mayer RR, Mummaneni PV, Chan AK, Bisson EF, Rivera J, Pennicooke B, Fu K, Park P, Bydon M, Glassman SD, Foley KT, Shaffrey CI, Potts EA, Shaffrey ME, Coric D, Knightly JJ, Wang MY, Slotkin JR, Asher AL, Haid RW, Chou D. Does Meyerding slippage reduction in spondylolisthesis correlate with patient outcomes? 9<sup>th</sup> Annual Conference of Neurological Surgeons' Society of India, Kolkata, India, February 27–29, 2020.
8. Mayer RR, Ammanuel S, Chan A, DiGiorgio AM, Alazzeah M, Nwachuku K, Robinson LC, Lobo E, Mummaneni PV. Perioperative Anesthesia Lean Implementation is Associated With Increased Operative Efficiency in Posterior Cervical Surgeries at a High-Volume Spine Center. 9<sup>th</sup> Annual Conference of Neurological Surgeons' Society of India, Kolkata, India, February 27–29, 2020.
9. Khan AB, LoPresti M, Patel R, Mayer RR, Morris SA, Lam S, Ravindra V. Scoliosis in Loews-Dietz Syndrome: A Case Series and Clinical Update. Congress of Neurological Surgeons 2019 Annual Meeting, San Francisco, CA, October 19-23, 2019.
10. Sellin JN, Mayer RR, Hoffman M, Ropper AE. Simultaneous Lateral Interbody Fusion and Pedicle Screws (SLIPS) with CT-guided Navigation: Technical Note. Spine Summit 2016 – 34<sup>th</sup> Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 14-17, 2018.
11. Mayer RR, Verla T, Pan I, Jea A, Luerssen TG, Lam SK. Direct Costs of Adult Scoliosis in the United States. Spine Summit 2016 – 33<sup>rd</sup> Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV, March 8-11, 2017.
12. Lam SK, Mayer RR, LoPresti M, Pan IW. Estimating Surgical Hospitalization Cost of Pediatric Chiari 1 Malformation. Congress of Neurological Surgeons 2016 Annual Meeting, San Diego, CA, September 24-28, 2016.
13. Mohan A, Mayer RR, Hansen D, Curry D, Lam SK. Perioperative Antibiotic Use in Vagus Nerve Stimulator Implantation. Congress of Neurological Surgeons 2016 Annual Meeting, San Diego, CA, September 24-28, 2016.
14. Lam SK, Mayer RR, Luerssen TG, Pan I. Hospitalization Cost of Chiari Malformation Type 1 Surgery in Pediatric Patients. Texas Children's Hospital, Surgical Research Day, Houston, TX, May 5-6, 2016.
15. Lin Y, Pan IW, Mayer RR, Lam S. Complications after craniostylosis surgery: comparison of the 2012 Kids' Inpatient Database and Pediatric NSQIP database. Texas Children's Hospital, Surgical Research Day, Houston, TX, May 5-6, 2016.
16. Mayer RR, Vedantam A, Harris DA, Pan I, Hansen D, Curry D, Lam SK. 30 Day Outcomes In Children After Baclofen Pump Placement: A Pediatric NSQIP Database Study. 2016 American College of Surgeons NSQIP Annual Conference. San Diego, CA, July 16-19, 2016.
17. Lam SK, Mayer RR, Luerssen TG, Pan I. Hospitalization Cost of Chiari Malformation Type 1 Surgery in Pediatric Patients. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 21-25, 2016.
18. Verla T, Winnegan L, Cherian J, Mayer RR, Omeis I. Trends in Narcotic Usage Following Minimally Invasive Transforaminal and Direct Lumbar Interbody Fusion Surgery. Scoliosis Research Society, 50<sup>th</sup> Annual Meeting, Washington, DC, September 30 – October 3, 2016.
19. Verla T, Winnegan L, Cherian J, Mayer RR, Omeis I. Minimally Invasive Transforaminal vs. Direct Lumbar Interbody Fusion: Effect on Return to work and Narcotic Usage. Scoliosis Research Society, 50<sup>th</sup> Annual Meeting, Washington, DC, September 30 – October 3, 2016.

20. Mayer RR, Vedantam A, Harris DA, Pan I, Hansen D, Curry D, Lam SK. 30 Day Outcomes in Children after Baclofen Pump Placement from the National ACS NSQIP Pediatric Database. 84<sup>th</sup> AANS Annual Scientific Meeting, Chicago, IL, April 30 – May 4, 2016.
21. Lam SK, Mayer RR, Verla T, Luerssen T, Pan I. The July Effect in Pediatric Neurosurgery. 84<sup>th</sup> AANS Annual Scientific Meeting, Chicago, IL, April 30 – May 4, 2016.
22. Mayer RR, Verla T, Pan I, Jea A, Luerssen TG, Lam SK. Direct Costs of Adult Scoliosis in the United States. 84<sup>th</sup> AANS Annual Scientific Meeting, Chicago, IL, April 30 – May 4, 2016.
23. Lam SK, Mayer RR, Luerssen TG, Pan I. Chiari Surgery in the Pediatric Population: A Model of Hospitalization Cost. 84<sup>th</sup> AANS Annual Scientific Meeting, Chicago, IL, April 30 – May 4, 2016.
24. Mayer RR, Pan I, Reddy G, Lam SK. 30 day Outcomes for Posterior Fossa Decompression in Children with Type I Chiari Malformation from the National ACS NSQIP Pediatric Database. 84<sup>th</sup> AANS Annual Scientific Meeting, Chicago, IL, April 30 – May 4, 2016.
25. Mayer RR, Cherian J, Winnegan L, Omeis I. C5 palsy after cervical decompression – cost analysis and implications for treatment. Spine Summit 2016 - 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 16-19, 2016.
26. Cherian J, Mayer RR, Omeis I. Contribution of Lordotic Correction on C5 Palsy Following Cervical Laminectomy and Fusion. Spine Summit 2016 - 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 16-19, 2016.
27. Cherian J, Mayer RR, Pan I, Luerssen T, Lam S. Multicenter 30-day outcomes of postnatal myelomeningocele surgery using Pediatric NSQIP. 2015 AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting, Seattle, WA, December 8 – 11, 2015
28. Hashmi SS, Guha-Thakurta N, Suki D, Mayer RR, Chi TL, Ketonen L, Weinberg JS, Debnam JM. Correlation of Leptomeningeal Disease on MRI Between the Brain and Spine in Patients Presenting to a Tertiary Referral Center. American Society of Neuroradiology 53rd Annual Meeting Proceedings, April 25-30, 2015.
29. Cherian J, Mayer RR, Omeis I. Contribution of Lordotic Correction on C5 Palsy Following Cervical Laminectomy and Fusion. Congress of Neurological Surgeons, New Orleans, LA, September 26-30, 2015.
30. Debnam JM, Guha-Thakurta N, Buisson NM, Strickland B, Weinberg JS, Mayer RR, Wang J. Apparent Diffusion Coefficient Values in Patients with Glioblastoma. American Society of Neuroradiology, Annual Meeting, Chicago, Illinois, April 25-30, 2015.
31. Papasozomenos H, Rohren E, Guha-Thakurta N, Mayer RR, Weinberg JS, Debnam JM. PET/CT Appearance of Spinal Leptomeningeal Disease. American Society of Neuroradiology, Annual Meeting, Chicago, Illinois, April 25-30, 2015.
32. Debnam JM, Guha-Thakurta N, Buisson NM, Strickland B, Weinberg JS, Mayer RR, Wang J. Ventricular Apparent Diffusion Coefficient Values in Patients with Glioblastoma. American Society of Neuroradiology 52nd Annual Meeting Proceedings, May 17 – 22, Montreal, CA, 2014.
33. Strickland BA, Mayer RR, Suki D, McCutcheon IE, Weinberg JS. Incidence of Leptomeningeal Disease Following Ventricular Entry During Glioblastoma Resection. The European Association of Neurosurgical Societies, Annual Meeting, Tel-Aviv, Israel, November 11-13, 2013.
34. Szvalb AD, Raad II, Weinberg JS, Suki D, Mayer RR, Viola GM. Ommaya reservoir-related infections: Clinical manifestations and treatment outcomes. Infectious Diseases Societies of America, Annual Meeting, San Francisco, CA, October 2013.
35. Liu HH, Wang J, Suki D, Guha-Thakurta N, Chi TL, Ketonen L, Mayer RR, Weinberg JS, Debnam JM. Apparent diffusion coefficient and fractional anisotropy values of the lateral ventricles and corpus callosum in patients with leptomeningeal metastatic disease. American Society of Neuroradiology, Annual Meeting, San Diego, CA, May 18-23, 2013.
36. Mayer RR, Fahim DK, Sacks JM, Rao G, Adelman, McCutcheon IE. Scalp tumors with intracranial extension in 50 patients: multidisciplinary surgical strategies and outcomes. American Association of Neurological Surgeons, Annual Meeting, Miami, FL, April 14-18, 2012.
37. Mayer RR, Rao VY, Tatsui CE, Ehni BL. Pedicle Reduction Lumbar Foraminotomy. American Association of Neurological Surgeons, Annual Meeting, Miami, FL, April 14-18, 2012.
38. Mayer RR, Hwang SW, Jea A, Debnam JM, Dauser RC, Groves M, McCutcheon IE, Sawaya R, Weinberg JS. Ommaya reservoir placement in the pediatric cancer population. 39th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Austin, TX, November 30 – December 2, 2011.

39. Mayer RR, Hwang SW, Whitehead WE, Curry DJ, Luerssen TG, Jea A. Neurosurgical complications of ventricular assist devices in children. 39th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Austin, TX, November 30 – December 2, 2011.
40. Fahim DK, Mayer RR, Tatsui C, Gokaslan Z, Suki D, Rhines L. Long-term Durability of 634 Polymethylmethacrylate Vertebral Body Reconstructions after Vertebrectomy in 581 Consecutive Cancer Patients. European Association of Neurological Surgeons, Annual Meeting, Rome, Italy, October, 2011.
41. Mayer RR, Fahim DK, Mohan K, Sacks JM, Rao G, Adelman, McCutcheon IE. Scalp tumors with intracranial extension in 50 patients: multidisciplinary surgical strategies and outcomes. Congress of Neurological Surgeons, Annual Meeting, Washington, DC, October 1-6, 2011.
42. Mayer RR, Suki D, Debnam JM, Kitagawa R, McCutcheon IE, Groves M, Sawaya R, Weinberg JS. Complications and Risk Factor Analysis of Ommaya Reservoir Placement in 835 Patients. Congress of Neurological Surgeons, Annual Meeting, Washington, DC, October 1-6, 2011.
43. Fahim DK, Mayer RR, Tatsui C, Gokaslan Z, Suki D, Rhines L. Long-term Durability of 634 Polymethylmethacrylate Vertebral Body Reconstructions after Vertebrectomy in 581 Consecutive Cancer Patients. Congress of Neurological Surgeons, Annual Meeting, Washington, DC, October 1-6, 2011.
44. Mayer RR, Maharaj A, Kass JS, Kim S, Weinberg JS. Leptomeningeal metastases presenting exclusively with ocular disturbance in 34 patients: a tertiary care cancer hospital experience. 15th Congress of the European Federation of Neurological Societies, Budapest, Hungary, September 10-13, 2011.
45. Mayer RR, Suki D, Debnam JM, Kitagawa RS, Sawaya R, Weinberg JS. Complications and Risk Factors Analysis of Ommaya Reservoir Placement – A Tertiary Care Cancer Hospital Experience. James K Alexander Research Symposium, Baylor College of Medicine, Houston, TX, 2011.
46. Debnam JM, Esmali B, Mayer RR, Weinberg J, Guha N. Three-dimensional volume rendered MDCT with surface-shaded display for evaluation of the orbital in patients with cancer. American Society of Neuroradiology, Seattle, WA, June 4-9, 2011.
47. Mayer RR, Debnam JM, Suki D, Kitagawa RS, Groves M, Sawaya R, Weinberg JS. Operative Experience and Technical Factors in Ventricular Catheter Placement. American Academy of Neurology, 63rd Annual Meeting, Honolulu, Hawaii, April 11, 2011.

#### **Conferences and Courses—**

- Globus MERC Advanced Lateral Spine Series Live Webinar: Anterior-to-Psoas (L2-5), Course Directors Dean Chou and Choll Kim, April 29, 2020.
- Spine Summit 2020 – 36th Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV, March 5-8, 2020.
- 9th Annual Conference of Neurological Surgeons' Society of India, Kolkata, India, February 27 – 29, 2020.
- 2020 Congress of Neurological Surgeons Spine Complications Course, Course Directors Daniel Hoh and Praveen Mummaneni, Park City, UT, February 7-9, 2020.
- Texas Association of Neurological Surgeons, 2020 Annual Meeting, Dallas, TX, January 30 – February 2, 2020.
- Northern California Fellows Course, Treatment of Degenerative Lumbar Conditions, NuVasive, San Diego, CA, December 6-7, 2019.
- Congress of Neurological Surgeons, 2019 Annual Meeting, San Francisco, CA, October 19-23, 2019.
- US SpineArt Spine Summit West, Carmel, CA, August 23-24, 2019.
- SI-Bone - iFuse Implant Training Program, Course Director Sigurd Berven, UCSF Orthopedic Trauma Institute, San Francisco, CA, August 21, 2019.
- UCSF Neurosurgery Update, Sonoma, CA, August 1-3, 2019.
- Stryker Spine Surgery Pre-Fellowship Course and Fellows Meeting, Chicago, IL, May 17-18, 2019.
- Texas Association of Neurological Surgeons, 2019 Annual Meeting, San Antonio, TX, February 7-11, 2019.
- MERC: Lateral Spine Surgery: Transpsoas vs. Anterior-to-Psoas Cadaveric Training Program, Course Directors Larry Khoo and Joseph O'Brien, Los Angeles, CA, September 8, 2018.
- Globus Fifth Annual Musculoskeletal Education and Research Center Symposium, Course Director Chris Ames, Audubon, PA, August 17-18, 2018.
- Orthofix Adult Spinal Deformity Residents and Fellows Course, Course Director Khaled Kebaish, Miami, FL, April 20-21, 2018.



- Spine Summit 2017 - 34rd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 14-17, 2017.
- Spine Summit 2016 - 33rd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV, March 8-11, 2016.
- Texas Association of Neurological Surgeons, 2017 Annual Meeting, Austin, TX, February 16-19, 2017.
- Seventh Annual ONE Spine Residents and Fellows Course, Course Directors Chris Shaffrey and Rod Oskouian, Seattle Science Foundation and Swedish Neuroscience Institute, Seattle, WA, August 12-14, 2016.
- American Association of Neurological Surgeons 84<sup>th</sup> Annual Scientific Meeting, Chicago, IL, April 29 – May 5, 2016.
- Spine Summit 2016 - 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 16-19, 2016.
- Texas Association of Neurological Surgeons, 2016 Annual Meeting, Fort Worth, TX, February 19-21, 2016.
- Fundamentals of Spine Surgery, American Association of Neurological Surgeons and Neurosurgery Research and Education Foundation, Course Directors R. Patrick Jacob and Praveen Mummaneni, The Methodist Hospital, Houston, TX, October 22-24, 2015.
- NuVasive Foundations in Lateral Surgery: XLIF Skills labs, Course Director Andrew Roeser, The Methodist Hospital, Houston, TX, October 16, 2015.
- DePuy Synthes Spine Future Leaders Workshop: Surgical Management of Spinal Deformity, The Methodist Hospital, Houston, TX, August 28-29, 2015
- Responsible Conduct of Research Program, Ethics Certificate, Clinical Scientist Training Program, Baylor College of Medicine, August 2015
- Science of Neurosurgical Practice Course for Residents, American Association of Neurological Surgeons and The Society of Neurological Surgeons, Chicago, Illinois, June 12-14, 2015.
- Paracavernous anatomy and surgical approaches; lateral orbital approaches to the temporal lobe, 3rd Annual Nicholson Lecture in Surgical Neuroanatomy and Research, Course Director William Couldwell, Baylor College of Medicine, Houston, TX, April 18-19th, 2014
- Introduction to the Operating Room and Leadership, Society of Neurological Surgeons Junior Resident Course, The University of California San Diego, San Diego, CA, May 30 - June 1, 2013.
- White matter fiber tract dissection, George Ehni Workshop, Course Director Ugur Ture, Baylor College of Medicine, Houston, TX, May 18, 2013.
- Controversies and Consensus in Moyamoya Disease, Texas Medical Center, Houston, TX, May 4, 2013.
- Surgical Management of Adult Spinal Deformity, DePuy Synthes Spine Future Leaders Workshop, Course Directors Rex Marco and Kevin Morrill, The Methodist Hospital, Houston, TX, April 13, 2013.
- Extreme lateral approach to the upper cervical region and skull base and jugular foramen approaches, 2nd Annual Nicholson Lecture in Surgical Neuroanatomy and Research, Course Director Jon Robertson, Baylor College of Medicine, Houston, TX, April 5-6th, 2013
- Lumbar Spine Course, Course Director Claudio Tatsui, Baylor College of Medicine and The University of Texas MD Anderson Cancer Center, Houston, TX, March 23, 2013.
- Temporal Bone Anatomy and Approaches For Neurosurgery, Course Director Edward Duckworth, Baylor College of Medicine and The University of Texas MD Anderson Cancer Center, Houston, TX, January 13, 2013.
- Live Interventional Neuroradiology Conference, Course Director Michel Mawad, Baylor College of Medicine, Houston, TX, December 11-13, 2012.
- Central and Lower Thoracic Spine Course, Course Director Lawrence Rhines, Baylor College of Medicine and The University of Texas MD Anderson Cancer Center, Houston, TX, Fall, 2012.
- Anterior and posterior approaches to the cervical spine with fixation and fusion techniques, Course Director Daniel Kim, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, July 28, 2012.
- Society of Neurological Surgeons Boot Camp Fundamental Skills Course, Baylor College of Medicine and The University of Texas MD Cancer Center, Houston, TX, July 13-14, 2012.
- American Association of Neurological Surgeons/Congress of Neurological Surgeons, Pediatric Section Meeting, Austin, TX, November 29 – December 2, 2011.
- Congress of Neurological Surgeons, 2011 Annual Meeting, October 1-6, 2011.
- Surgical Approaches to the Skull-Base, Course Director Kris Moe, University of Washington, Seattle, WA, August 5-6, 2011.



- Center for Globalization Conference, MD Anderson Cancer Center, Houston, TX, June 6, 2011.
- American Academy of Neurology 63rd Annual Meeting, Honolulu, Hawaii, April 9-16, 2011.
- James K Alexander Research Symposium, Baylor College of Medicine, Houston, TX, March 10, 2011.

## **AWARDS & HONORS**

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- Neurosurgery Research and Education Foundation (NREF) Clinical Fellowship Grant, Spine Surgery, 2019
- Charlie Kuntz Scholar Award, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, 2016
- Top Pediatric Neurosurgery Section Poster, Congress of Neurological Surgeons Annual Meeting, Perioperative Antibiotic Use in Vagus Nerve Stimulator Implantation, 2016
- Kinjiro Iwata, M.D. Award for Excellence in Neurosurgery, Department of Neurosurgery, Baylor College of Medicine, 2012
- Alpha Omega Alpha Honor Society, Baylor College of Medicine, nominated 2011
- Arnold P. Gold Foundation, Gold Humanism Honor Society, Baylor College of Medicine, 2011
- Medical Student Scholarship, American Academy of Neurology, 2011
- BCM Travel Fellowship, Baylor Student Surgical Society, 2010
- Phi Beta Kappa, The University of Texas at Austin, nominated 2007
- College Scholar, The University of Texas at Austin, 2007
- International Education Fund Scholarship, The University of Texas at Austin, 2006
- Undergraduate Research Fellowship, The University of Texas at Austin, 2006
- University Honors, The University of Texas at Austin, 2005, 2006, 2007
- Best Student Award, Department of German Languages, The University of Texas at Austin, 2006

## **LEADERSHIP**

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- Chief Resident, Department of Neurosurgery, Baylor College of Medicine, 2018 – 2019
- Co-Chair, Baylor Student Surgical Society, 2009 - 2011
- Liaison for Neurosurgery, Baylor Student Surgical Society, 2008 - 2012
- President, BCM Project Medishare for Haiti, 2009 - 2012
- Advisory Board Member-at-Large, BCM Project Medishare for Haiti, 2009 - 2012
- Student Liaison and Representative, Center for Globalization, Baylor College of Medicine

## **TEACHING EXPERIENCE**

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- Chief Resident Didactics in Neurosurgery Series, Ben Taub General Hospital, 2019
- Spinal Anatomy Cadaver Instruction, Department of Neurosurgery, University of California San Francisco, 2019
- Course Faculty, Society of Neurological Surgeons, Southwestern Regional PGY1 Bootcamp, Baylor College of Medicine, 2015
- Course Faculty, Kempfer Functional Neuroanatomy Seminar, The University of Texas MD Anderson Cancer Center and Baylor College of Medicine, 2014, 2015
- Surgical Skills Lab Coordinator, Baylor College of Medicine, 2010
  - In conjunction with Core Surgery Clerkship Educational Program
- Clinical Skills Instructor, Baylor Emergency Medicine Interest Group, 2009 – present
- Gross Anatomy Tutor, Baylor College of Medicine, 2009
- Laboratory Instructor, Structure & Function of Organisms, University of Texas at Austin, 2007
- Science and Mathematics Tutor, University of Texas Learning Center, University of Texas at Austin, 2006 - 2007

## **VOLUNTEER EXPERIENCE**

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- University of Texas, College of Natural Sciences, Undergraduate Research Forum, Scientific Judge, 2020
- Project Medishare, Port-au-Prince, Haiti, 2010 - 2013
- Student Interest Group in Neurology, Community Clinic Volunteer, 2010 - 2012

- Ben Taub General Hospital Emergency Center, 2009 – 2012
- Baylor Emergency Medicine Interest Group, Clinical Skills Instructor, 2009 – 2012
- H.O.M.E.S. Clinic, BCM, Houston, Texas, 2008 – 2012
- Black Sea Program: Baylor International Pediatric AIDS Initiative, Constanta, Romania, August, 2006

## PROFESSIONAL ASSOCIATIONS

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- Lumbar Spine Research Society, Member, 2020 – present
- Dallas County Medical Society, Member, 2020 - present
- Texas Medical Association, Member, 2020 – present
- AO Spine North America, Member, 2019 - present
- North American Spine Society, Resident Member, 2015 – 2019
- Texas Association of Neurological Surgeons, Member, 2012 - present
- American Association of Neurological Surgeons, Member, 2010 – present
- Congress of Neurological Surgeons, Member, 2011 – present
- Houston Neurological Society, Member, 2013 – 2019
- Harris County Medical Society, Member, 2008 - 2019

## CERTIFICATION

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### *Licensures (Active)*

- Medical Doctor, 2012
- State of California, Medical Board of California, Physician and Surgeon License A159133, Exp 10/31/2020
- State of Texas, Texas Medical Board, Full Medical License S4190, Date of Issuance 11/15/2019
- Taken and Passed American Board of Neurological Surgeons Written Exam, 2016
- Fluoroscopy X-Ray Supervisor and Operator License – California Department of Public Health, exp 6/30/2021
- Taken and Passed USMLE steps 1, 2CK, 2 CS, 3

### *Continuing Medical Education Certifications*

- Ethics in Research Certification, Clinical Scientist Training Program Curriculum, Baylor College of Medicine, August 2015

## INVITED TALKS, PANELS, ORAL PRESENTATIONS

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- Mayer RR: *Does Meyerding slippage reduction in spondylolisthesis correlate with patient outcomes?* Spine Summit 2020 – 36th Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV, March 6, 2020.
- Mayer RR: *Minimally Invasive Surgery for Spinal Tumors.* 9th Annual Conference of Neurological Surgeons' Society of India. Kolkata, India, February 28, 2020.
- Mayer RR: *Management of Primary Spine Tumors.* Grand Rounds, Department of Neurosurgery, University of California San Francisco, San Francisco, CA, November 14, 2019.
- Mayer RR: *Management of Primary Spine Tumors.* Grand Rounds, Department of Neurosurgery, University of California San Francisco, San Francisco, CA, November 14, 2019.
- Mayer RR: *Minimally Invasive Spine Surgery: Current Applications in Spinal Oncology– Case-Based Presentation.* Grand Rounds, Department of Neurosurgery, The University of Texas MD Anderson Cancer Center, Houston, TX, March 6, 2019.
- Mayer RR: *Evaluation and Treatment of Peripheral Nerve Lesions in Neurofibromatosis Type 1 – Case-Based Presentation.* Grand Rounds, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, December 5, 2018.
- Mayer RR: *Far Lateral Approach to Foramen Magnum Meningiomas – Case-Based Presentation.* Grand Rounds, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, November 6, 2018.

- Mayer RR: *Early versus Delayed Decompression for Traumatic Cervical Spinal Cord Injury: Results of the Surgical Timing in Acute Spinal Cord Injury Study*. Journal Club, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, July 8, 2016.
- Mayer RR: *Spinal Deformity – A Case-Based Approach*. Grand Rounds, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, April 15, 2016.
- Mayer RR: *C5 palsy after cervical decompression – cost analysis and implications for treatment*. Spine Summit 2016 - 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 16-19, 2016.
- Mayer RR: *C5 palsy – radiographic considerations and socioeconomic impact of injury*. Texas Association of Neurological Surgeons, 2016 Annual Meeting, Fort Worth, TX, February 19-21, 2016.
- Mayer RR: *Cervical Disc Arthroplasty with PRESTIGE LP Disc Versus Anterior Cervical Discectomy and Fusion: a Prospective, Multicenter Investigational Device Exemption Study*. Journal Club, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, December 4, 2015.
- Mayer RR: *Interventions for Degenerative Lumbar Spine Disease: A Review of Cost Data and Outcomes*. Resident Seminar, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, December 19, 2014.
- Mayer RR: *Gamma Knife Radiosurgery for Cerebellopontine Angle Meningiomas*. Journal Club, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, November 7, 2014.
- Mayer RR: *Relevance of early head CT scans following neurosurgical procedures*. Journal Club, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, June 18, 2014.
- Mayer RR: *The impact of adjuvant stereotactic radiation on atypical meningioma recurrence following microsurgical resection*. Grand Rounds, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, November 1, 2013.
- Mayer RR: *Neurosurgical complications of ventricular assist devices in children*. 39th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Austin, TX, November 30 – December 2, 2011.
- Mayer RR: *Role of Polymethylmethacrylate Vertebral Body Reconstruction after Vertebrectomy*. Grand Rounds, Department of Neurosurgery, University of Washington, Seattle, WA, August 3, 2011.
- Mayer RR: *Long-term Durability of 634 Polymethylmethacrylate Vertebral Body Reconstructions after Vertebrectomy in 581 Consecutive Cancer Patients*. Grand Rounds, Department of Neurosurgery, Johns Hopkins University, Baltimore, MD, July 28, 2011.
- Mayer RR: *The role of laparoscopy for distal catheter placement of ventriculoperitoneal shunts*. Morbidity and Mortality Conference, Department of Surgery, Baylor College of Medicine, Houston, Texas, April 28, 2011.
- Mayer RR: *Complications and Risk Factor Analysis of Ommaya Reservoir Placement in 835 Patients*. James K Alexander Research Symposium, Baylor College of Medicine, Houston, TX, March 10, 2011.

## EDITORIAL ACTIVITIES

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- PLOS ONE, *ad hoc* reviewer, 2020
- Global Spine Journal, *ad hoc* reviewer, 2019
- Operative Neurosurgery, *ad hoc* reviewer, 2018
- Clinical Medicine Insights: Oncology, *ad hoc* reviewer, 2013
- International Journal of Nanomedicine, *ad hoc* reviewer, 2013