

Curriculum Vitae

Last Updated: 01/23/2026

PERSONAL DATA

Name: Marcus D. Mazur, M.D.

Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
2017 - 2018	Fellow	University of Virginia School of Medicine (Complex Spine) Charlottesville, VA
2010 - 2017	Resident	University of Utah School of Medicine (Neurosurgery) Salt Lake City, UT
2006 - 2010	M.D.	Case Western Reserve University School of Medicine (Medicine) Cleveland, OH
2001 - 2002		University of California, San Diego, University of Nottingham (Education abroad program) Nottingham, England, United Kingdom
1999 - 2003	B.S.	University of California, San Diego (Biochemistry and Cell Biology) La Jolla, CA
1999 - 2003	B.A.	University of California, San Diego (Literatures of the World) La Jolla, CA

BOARD CERTIFICATIONS

05/08/2021 - Present American Board of Neurological Surgery (Neurosurg), Certified

CURRENT LICENSES/CERTIFICATIONS

2025 - Present	State License (CA) – Physician (MD)
2024 - 2025	State License (NV) - Physician (MD)
2024 - 2025	State License (MT) - Physician (MD)
2022 - 2025	State License (WY) - Physician (MD)
2021 - Present	DEA Certificate - Physician (MD)
2011 - Present	State License (UT) - Physician (MD)

UNIVERSITY OF UTAH ACADEMIC HISTORY

Neurosurgery (Adult Neurosurgery), 07/15/2018 - Present

07/01/2025 - Present	Adjunct Associate Professor
07/01/2024 - 6/30/2025	Associate Professor
07/15/2018 - 06/30/2024	Assistant Professor

PROFESSIONAL EXPERIENCE

Full-Time Positions

2025 - Present	Staff Neurosurgeon, Providence Saint John's Health Center, Santa Monica, CA.
2025 - Present	Staff Neurosurgeon, Providence Little Company of Mary Medical Center, Torrance, CA.
2025 - Present	Staff Neurosurgeon, Pacific Neuroscience Institute, Santa Monica, CA.
2025 - Present	Staff Neurosurgeon, Saint Johns Physicians Partners, Santa Monica, CA.
2025 - Present	Adjunct Professor, Department of Neurosurgery, University of Utah, Salt Lake City, UT
2024 - Present	Associate Professor, Department of Neurosurgery, University of Utah, Salt Lake City, UT
2018 - 2024	Assistant Professor, Department of Neurosurgery, University of Utah, Salt Lake City, UT
2005 - 2006	Research Assistant, Health Services Research, VA Medical Center, Portland, OR
2005 - 2006	Instructor for MCAT, GRE, SAT, Kaplan Test Preparation, Portland, OR
2003 - 2004	English Language Instructor, Nova Chofu Minami Gaikuin, Tokyo, Japan

Part-Time Positions

2022 - 2025	Staff Neurosurgeon, Holy Cross Hospital - Salt Lake, Salt Lake City, UT
2019 - 2022	Staff Neurosurgeon, George E Wahlen Veterans Affairs Medical Center, Salt Lake City, UT
2019 - 2025	Staff Neurosurgeon, Holy Cross Hospital - Davis, Layton, Utah

Editorial Experience

2025 - Present	Editorial Review Board for Global Spine Journal
2024 - Present	E2M Reviewer for <i>Journal of Neurosurgery: Spine</i>
2024 - Present	Spine Section Editor for <i>World Neurosurgery</i>
2023 - 2024	E2M Reviewer for <i>Journal of Neurosurgery: Case Lessons</i>

Reviewer Experience

Ad Hoc Reviewer for <i>Global Spine Journal</i>
Ad Hoc Reviewer for <i>Journal of Clinical Neuroscience</i>
Ad Hoc Reviewer for <i>Journal of Neurotrauma</i>
Ad Hoc Reviewer for <i>Neurosurgery</i>
Ad Hoc Reviewer for <i>Neurosurgery Focus</i>
Ad Hoc Reviewer for <i>Surgical Neurology International</i>

SCHOLASTIC HONORS

2024	Biedermann Innovation Research Award, Scoliosis Research Society
2024	Award of Tenure, Department of Neurosurgery
2023	Principal investigator on project and faculty mentor for resident recipient of Mayfield Clinical Science Award at the 2023 Spine Summit Annual Meeting.

2022	Principal investigator on project and faculty mentor for resident awarded Third Place Resident/Fellow Research Award at Cervical Spine Research Society Annual Meeting, 2022, San Diego, CA.
2022	Principal investigator on project and faculty mentor for resident awarded as Innovator of the Year at Congress of Neurological Surgeons Annual Meeting 2022, San Francisco, CA.
2021	AO Spine Young Investigator Research Grant Award-\$20,000
2017	AO Spine Fellowship, University of Virginia, Charlottesville, VA
2016	Resident Paper Award, 44th Annual Meeting of the Cervical Spine Research Society, Toronto, ON, Canada
2016	Charlie Kuntz IV Scholar Award, 32nd Annual Meeting of the Congress of Neurological Surgeons/American Association of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL
2016	Award for Outstanding Research in Clinical Neurosurgery, 8th Annual Heilbrun Research Lectureship, Department of Neurosurgery, University of Utah School of Medicine, Salt Lake City, UT
2015	Resident Award, Rocky Mountain Neurosurgical Society
2015	Journal Club Winning Submission, <i>Neurosurgery</i>
2010	Honors with distinction in research, M.D., Case Western Reserve University School of Medicine, Cleveland, OH
2009	Foundations of medicine certificate of excellence, Foundation for Advancement of International Medical Education and Research (FAIMER), National Board of Medical Examiners
2003	Magna cum laude, B.S., B.A., University of California, San Diego, La Jolla, CA
2003	Departmental honors with distinction, University of California, San Diego, La Jolla, CA
2003	Phi Beta Kappa, University of California, San Diego, La Jolla, CA
2003	Literature prize for classics, University of California, San Diego, La Jolla, CA

ADMINISTRATIVE EXPERIENCE

Administrative Duties

2024 - Present	Program Director, Neurosurgery Residency
2023 - Present	Cervical Spine Research Society, Committee on Education
2023 - Present	AANS/CNS Joint Guidelines Review Committee
2022 - Present	Scoliosis Research Society, Committee on Continuing Medical Education
2022 - Present	Program Director Neurosurgery Spine Fellowship
2022 - 2024	Associate Program Director, Neurosurgery Residency
2020 - Present	School of Medicine Admissions Committee
2019 - Present	Clinical Neuroscience Center Operating Room Local Governance Committee
2019 - Present	Spine Committee Value Analysis Team
2016 - 2017	Chief Resident, Department of Neurosurgery, University of Utah

CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

AOSpine North America

American Association of Neurological Surgeons
Cervical Spine Research Society
Congress of Neurological Surgeons
Lumbar Spine Research Society
Scoliosis Research Society

FUNDING

Active Grants

09/01/24 - 08/30/26 Biedermann Innovation Research Grant, Scoliosis Research Society
Robotic Cervical Management System
Principal Investigator(s): Marcus D. Mazur
Direct Costs: \$50,000 Total Costs: \$50,000
Scoliosis Research Society
Role: Principal Investigator

Past Grants

03/14/23 - 04/30/25 PIVOT Ascender Grant: Motorized Robotic Cervical Traction
Principal Investigator(s): Marcus D. Mazur; Brandon Sherrod, MD
Direct Costs: \$95,600 Total Costs: \$95,600
University of Utah PIVOT Center
Role: Co-Principal Investigator & Mentor

10/01/22 - 12/31/23 CSRS: MOTOR VS WEIGHT TRACTION
Principal Investigator(s): Marcus D. Mazur
Direct Costs: \$15,000 Total Costs: \$15,000
Cervical Spine Research Society
Role: Principal Investigator

05/31/22 - 05/30/23 NREF SPINE FELLOWSHIP 22/23
Principal Investigator(s): Marcus D. Mazur
Direct Costs: \$60,000 Total Costs: \$60,000
Neurosurgery Research and Education Foundation
Role: Primary Investigator

03/11/21 - 03/10/23 AOS: MOTORIZED TRACTION
Principal Investigator(s): Marcus D. Mazur
Direct Costs: \$19,048 Total Costs: \$20,000
AOSpine North America
Role: Principal Investigator

06/01/07 - 08/31/07 Research Training in Heart, Lung, Blood & Sleep Disorders
Direct Costs: \$3,462 Total Costs: \$3,462
National Institutes of Health Training Grant
Role: Trainee

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Additional Teaching Contribution

2024 AO Spine North America, Fellows Webinar, C1 Burst Fracture Update
2024 Cervical Spine Research Society Webinar: Critical Knowledge and Methods to

Manage Cervical Spine Trauma

- 2023 AO Spine North America, Fellows Webinar, Upper Cervical Spine Fracture Update
- 2023 AO Spine North America, Global Spine Diploma, Trauma Module, Faculty
- 2022 Moderator of AO Spine Fellows Webinar: Cervical Spine Deformity

PEER-REVIEWED JOURNAL ARTICLES

1. Sherrod BA, Bales I, Reinsch A, Dailey AT, Zhang H, **Mazur MD** (2025). Robotic Cervical Traction: Cadaveric Facet Dislocation Biomechanical Testing.(Epub ahead of print). *Clin Spine Surg.*
2. Zhang JK, Yakdan S, Pruthi S, Kaleem MI, Chavda N, Lu J, Bagdady K, Wegenka L, Koch T, ReVeal M, Liu Y, Dibble CF, Greenberg JK, Javeed S, Hamrick FA, Twitchell S, Porche K, Gamboa NT, Sherrod BA, Mahan MA, Bisson EF, Dailey AT, **Mazur MD**, Ray WZ (2025). Segmental and overall lumbar lordosis after single-level minimally invasive transforaminal lumbar interbody fusion: a systematic review and meta-analysis.(Epub ahead of print) *J Neurosurg Spine*, 43(1), 72-80.
3. Hamrick F, Kim RB, Dailey AT, Bisson EF, Mahan MA, **Mazur MD** (2025). Impact of Cage Material (PEEK vs. Titanium) on Subsidence, Fusion, and Patient-reported Outcomes After Transforaminal Lumbar Interbody Fusion.(Epub ahead of print). *Clin Spine Surg.*
4. Zhang JK, Bagdady K, Patel M, Spence L, O'Malley D, Ghosh S, Mercier PA, Dailey AT, **Mazur MD**, Mattei TA (2025). Patent Rights and Infringement Claims in Spine Surgery in the United States: A Primer for Neurosurgeons.(Epub ahead of print). *Neurosurgery.*
5. Zhang JK, Javeed S, Greenberg JK, Yakdan S, Iyer R, Dailey AT, Bisson EF, Mahan MA, **Mazur MD**, Song S-K, Ray WZ (2025). The role of the glymphatic system in cervical spondylotic myelopathy: insights from advanced imaging. *Clin Spine Surg*, 38(4), 204-212.
6. Twitchell S, Findlay MC, Nelson J, Sherrod BA, Menacho ST, Dorsey D, Dailey AT, **Mazur MD** (2025). Establishing a Benchmark for Iatrogenic Hemodilution and Blood Transfusion in Long-Segment Spine Fusion Surgery.(Epub ahead of print) *Spine (Phila Pa 1976)*, 50(5), 311-317.
7. Gautam D, Vivekanandan S, **Mazur MD** (2025). Robotic Spine Surgery: Systematic Review of Common Error Types and Best Practices.(Epub ahead of print) *Oper Neurosurg*, 28(3), 295-302.
8. Zhang JK, Javeed S, Greenberg JK, Yakdan S, Noroozi Gilandehi S, Shah LM, Iyer RR, Dailey AT, Bisson EF, Mahan MA, **Mazur MD**, Song SK, Ray WZ (2025). The Role of the Glymphatic System in Cervical Spondylotic Myelopathy: Insights From Advanced Imaging.(Epub ahead of print). *Clin Spine Surg.*
9. Zhang JK, Javeed S, Greenberg JK, Yakdan S, Kaleem MI, Botterbush KS, Benedict B, Dibble CF, Sun P, Sherrod B, Dailey AT, Bisson EF, Mahan MA, **Mazur M**, Song SK, Ray WZ (2025). Diffusion MRI metrics characterize postoperative clinical outcomes after surgery for cervical spondylotic myelopathy. *Neurosurgery (Philadelphia)*, 96(1), 69-77.
10. Wandvik C, Greil ME, Colby S, Gautam D, **Mazur MD** (2024). Limitations of current robot-assisted pedicle screw insertion systems. *Neurosurg Focus*, 57(6), E14.
11. Zhang JK, Yakdan S, Irfan M, Javeed S, Greenberg JK, Botterbush KS, Benedict B, Reis M, Hongsermeier-Graves N, Twitchell S, Sherrod B, **Mazur MS**, Mahan MA, Dailey AT, Bisson EF, Song SK, Ray WZ (2024). Spinal cord metrics derived from diffusion-weighted MRI improves

- prognostication in cervical spondylotic myelopathy compared to conventional MRI. *J Neurosurg*, 41(5), 639-647.
12. Findlay MC, Kim RB, Warner WS, Sherrod BA, Park S, **Mazur MD**, Mahan MA (2024). Identification of an Operative Time Threshold for Substantially Increased Postoperative Complications Among Elderly Spine Surgery Patients.(Epub ahead of print) *Global Spine J*, 14(5), 1532-1541.
 13. Hamrick FA, Sherrod BA, Cole K, Cox P, Croci DM, Bowers CA, **Mazur MD**, Dailey AT, Bisson EF (2024). Using Frailty Measures to Predict Functional Outcomes and Mortality After Type II Odontoid Fracture in Elderly Patients: A Retrospective Cohort Study.(Epub ahead of print) *Global Spine J*, 14(5), 1552-1562.
 14. Sherrod BA, Young JB, Wilkerson CG, Bisson EF, Dailey AT, **Mazur MD** (2024). Epidemiology of Gunshot-related Spinal Injuries and Related Risk Factors for In-hospital Mortality in the United States from 2015-2019: An NTDB Analysis.(Epub ahead of print) *J Neurotrauma*, 41(9-10), 1112-1121.
 15. Scoville J, Joyce E, **Mazur M** (2023). A radiological analysis of pelvic fixation trajectories. *J Neurosurg Case Lessons*, 6(17), CASE23465.
 16. Kim LJY, **Mazur MD**, Dailey AT (2023). Mid-term and Long-term Outcomes After Total Cervical Disk Arthroplasty Compared With Anterior Cervical Discectomy and Fusion: A Systematic Review and Meta-analysis of Randomized Controlled Trials.(Epub ahead of print). *Clin Spine Surg*.
 17. Sherrod BA, Schwehr T, Waldram D, Adams A, Averett S, Ha J, Kahle S, Mitchell D, Polevoi S, Dailey AT, Merryweather AS, **Mazur MD** (2023). Motorized Robotic Closed Cervical Traction: Biomechanical Proof of Concept.(Epub ahead of print) *Spine (Phila Pa 1976)*, 48(15), E247-E254.
 18. Findlay MC, Kim RB, Sherrod BA, **Mazur MD** (2023). High Failure Rates in Prisoners Undergoing Spine Fusion Surgery.(Epub ahead of print) *World Neurosurg*, 172, e396-e405.
 19. Croci DM, Nguyen S, Streitmatter SW, Sherrod BA, Hardy J, Cole KL, Gamblin AS, Bisson EF, **Mazur MD**, Dailey AT (2022). O-arm accuracy and radiation exposure in adult deformity surgery. *World Neurosurg*, 171, e440-e446.
 20. Sherrod BA, Kim R, Hunsaker J, Rada C, Christensen C, Stoddard GJ, Brodke D, Mahan MA, **Mazur MD**, Bisson EF, Dailey AT (2022). Postoperative ileus risk after posterior thoracolumbar fusion performed with total intravenous anesthesia versus inhaled anesthesia. *J Neurosurg Spine*, 38(3), 307-312.
 21. Sherrod BA, Wilkerson CG, Rolston JD, Bisson EF, **Mazur MD**, Couldwell WT, Dailey AT (2022). Neurosurgery at Pearl Harbor: Ralph Cloward's legacy. *Neurosurg Focus*, 53(3), E14.
 22. Azab M, Gamboa N, Nadel J, Cutler C, Henson JC, Lucke-Wold B, Panther E, Brandel MG, Khalessi AA, Rennert RC, Menacho ST, **Mazur MD**, Karsy M (2022). Case Series and Systematic Review of Electronic Scooter Crashes and Severe Traumatic Brain Injury. *World Neurosurg*, 167, e184-e195.
 23. Croci DM, Gamboa NT, Osman AEG, Maese L, **Mazur M**, Bisson EF, Dailey AT (2022). Solitary manifestations of primary B-lymphoblastic lymphoma of the spine: Systematic literature review with case illustration. *Clin Neurol Neurosurg*, 212, 107064.
 24. Kundu B, Eli I, Dailey A, Shah LM, **Mazur MD** (2021). Preoperative Magnetic Resonance Imaging Abnormalities Predict Symptomatic Adjacent Segment Degeneration After Anterior Cervical Discectomy and Fusion. *Cureus*, 13(8), e17282.
 25. Levi AD, Shaffrey CI, Haid RW, Boden SD, Clarke MJ, **Mazur MD** (2021). Introduction. Biologics in spine surgery. *Neurosurg Focus*, 50(6), E1.

26. Buell TJ, Buchholz AL, **Mazur MD**, Mullin JP, Chen CJ, Sokolowski JD, Yen CP, Shaffrey ME, Shaffrey CI, Smith JS (2020). Kickstand Rod Technique for Correcting Coronal Imbalance in Adult Scoliosis: 2-Dimensional Operative Video. *Oper Neurosurg*, 19(2), E163-E164.
27. Eli IM, Karsy M, Brodke DS, Bachus KN, Couldwell WT, Dailey AT, **Mazur MD** (2020). Restabilization of the Occipitocervical Junction After a Complete Unilateral Condylectomy: A Biomechanical Comparison of Unilateral and Bilateral Fixation Techniques. *Oper Neurosurg*, 19(2), 157-164.
28. Scoville JP, **Mazur MD**, Couldwell WT (2020). Unique Far-Lateral Closure Technique: Technical Note. *Oper Neurosurg*, 18(4), 384-390.
29. Ravindra VM, **Mazur MD**, Brockmeyer DL, Kraus KL, Ropper AE, Hanson DS, Dahl BT (2020). Clinical Effectiveness of S2-Alar Iliac Screws in Spinopelvic Fixation in Pediatric Neuromuscular Scoliosis: Systematic Literature Review. *Global Spine J*, 10(8), 2192568219899658.
30. Wilkerson C, Mortimer V, Dailey AT, **Mazur MD** (2020). Minimally invasive oblique interbody fusion for correction of iatrogenic lumbar deformity. *Neurosurg Focus Video*, 2(1), V3.
31. Brasiliense LBC, Aguilar-Salinas P, Lopes DK, Nogueira D, DeSousa K, Nelson PK, Moran CJ, **Mazur MD**, Taussky P, Park MS, Dabus G, Linfante I, Chaudry I, Turner RD, Spiotta AM, Turk AS, Siddiqui AH, Levy EI, Hopkins LN, Arthur AS, Nickele C, Gonsales D, Sauvageau E, Hanel RA (2018). Multicenter Study of Pipeline Flex for Intracranial Aneurysms. *Neurosurgery*, 84(6), E402-E409.
32. **Mazur MD**, Dailey AT (2019). Editorial. Reducing the burden of spine fusion. *Neurosurg Focus*, 46(4), E15.
33. Buell TJ, Taylor DG, Chen CJ, Dunn LK, Mullin JP, **Mazur MD**, Yen CP, Shaffrey ME, Shaffrey CI, Smith JS, Naik BI (2019). Rotational thromboelastometry-guided transfusion during lumbar pedicle subtraction osteotomy for adult spinal deformity: preliminary findings from a matched cohort study. *Neurosurg Focus*, 46(4), E17.
34. Nguyen JH, Buell TJ, Wang TR, Mullin JP, **Mazur MD**, Garces J, Taylor DG, Yen CP, Shaffrey CI, Smith JS (2019). Low rates of complications after spinopelvic fixation with iliac screws in 260 adult patients with a minimum 2-year follow-up.(Epub ahead of print) *J Neurosurg Spine*, 1-9.
35. Buell TJ, Buchholz AL, Quinn JC, Mullin JP, Garces J, **Mazur MD**, Shaffrey ME, Yen CP, Shaffrey CI, Smith JS (2019). Extended Asymmetrical Pedicle Subtraction Osteotomy for Adult Spinal Deformity: 2-Dimensional Operative Video. *Oper Neurosurg*, 16(2), 52-53.
36. Buell TJ, Mullin JP, Nguyen JH, Taylor DG, Garces J, **Mazur MD**, Buchholz AL, Shaffrey ME, Yen CP, Shaffrey CI, Smith JS (2019). A Novel Junctional Tether Weave Technique for Adult Spinal Deformity: 2-Dimensional Operative Video. *Oper Neurosurg*, 16(2), 45-46.
37. **Mazur MD**, Dailey AT, Shah L, Scoville JP, Couldwell WT (2019). Delayed Occipitocervical Instability With Cranial Settling After Far-Lateral Transcondylar Surgery for Invasive Skull Base Tumor. *Oper Neurosurg*, 16(2), 250-255.
38. Buell TJ, Chen CJ, Quinn JC, Buchholz AL, **Mazur MD**, Mullin JP, Nguyen JH, Taylor DG, Bess S, Line BG, Ames CP, Schwab FJ, Lafage V, Shaffrey CI, Smith JS (2019). Alignment Risk Factors for Proximal Junctional Kyphosis and the Effect of Lower Thoracic Junctional Tethers for Adult Spinal Deformity. *World Neurosurg*, 121, e96-e103.
39. Buell TJ, Nguyen JH, **Mazur MD**, Mullin JP, Garces J, Taylor DG, Yen CP, Shaffrey ME, Shaffrey CI, Smith JS (2018). Radiographic outcome and complications after single-level lumbar extended pedicle subtraction osteotomy for fixed sagittal malalignment: a retrospective analysis of 55 adult

- spinal deformity patients with a minimum 2-year follow-up.(Epub ahead of print) *J Neurosurg Spine*, 1-11.
40. Brockmeyer DL, Sivakumar W, **Mazur MD**, Sayama CM, Goldstein HE, Lew SM, Hankinson TC, Anderson RCE, Jea A, Aldana PR, Proctor M, Hedequist D, Riva-Cambrin JK, Pediatric Craniocervical Society. (2018). Identifying Factors Predictive of Atlantoaxial Fusion Failure in Pediatric Patients: Lessons Learned From a Retrospective Pediatric Craniocervical Society Study. *Spine (Phila Pa 1976)*, 43(11), 754-760.
 41. **Mazur MD**, Taussky P, Park MS, Couldwell WT (2018). Contemporary endovascular and open aneurysm treatment in the era of flow diversion. *J Neurol Neurosurg Psychiatry*, 89(3), 277-286.
 42. **Mazur MD**, Gurgel R, MacDonald JD (2018). The Use of Semitranslucent Rubber Pledgets During Microsurgical Dissection of Cerebellopontine Angle Tumors: Technical Note. *Oper Neurosurg*, 14(1), 6-9.
 43. Holland CM, **Mazur MD**, Bisson EF, Schmidt MH, Dailey AT (2017). Trends in Patient Care for Traumatic Spinal Injuries in the United States: A National Inpatient Sample Study of the Correlations With Patient Outcomes From 2001 to 2012. *Spine (Phila Pa 1976)*, 42(24), 1923-1929.
 44. Park MS, **Mazur MD**, Moon K, Nanaszko MJ, Kestle JRW, Shah LM, Winegar B, Albuquerque FC, Taussky P, McDougall CG (2017). An outcomes-based grading scale for the evaluation of cerebral aneurysms treated with flow diversion. *J Neurointerv Surg*, 9(11), 1060-1063.
 45. **Mazur MD**, Taussky P, MacDonald JD, Park MS (2017). In Reply: Rerupture of a Blister Aneurysm After Treatment With a Single Flow-Diverting Stent. *Neurosurgery*, 81(3), E42.
 46. Awad AW, Moon K, Yoon N, **Mazur MD**, Kalani MYS, Taussky P, McDougall CG, Albuquerque FC, Park MS (2017). Flow diversion of tandem cerebral aneurysms: a multi-institutional retrospective study. *Neurosurg Focus*, 42(6), E10.
 47. Griaudzde J, Ravindra VM, Chaudhary N, Gemmete JJ, **Mazur MD**, Roark CD, Couldwell WT, Park MS, Taussky P, Pandey AS (2017). Use of the Pipeline embolization device in the treatment of iatrogenic intracranial vascular injuries: a bi-institutional experience. *Neurosurg Focus*, 42(6), E9.
 48. **Mazur MD**, Couldwell WT, Cutler A, Shah LM, Brodke DS, Bachus K, Dailey AT (2017). Occipitocervical Instability After Far-Lateral Transcondylar Surgery: A Biomechanical Analysis. *Neurosurgery*, 80(1), 140-145.
 49. **Mazur MD**, Mahan MA, Shah LM, Dailey AT (2017). Fate of S2-Alar-Iliac Screws After 12-Month Minimum Radiographic Follow-up: Preliminary Results. *Neurosurgery*, 80(1), 67-72.
 50. Ravindra VM, **Mazur MD**, Bisson EF, Barton C, Shah LM, Dailey AT (2016). The Usefulness of Single-Photon Emission Computed Tomography in Defining Painful Upper Cervical Facet Arthropathy. *World Neurosurg*, 96, 390-395.
 51. **Mazur MD**, Taussky P, Shah LM, Winegar B, Park MS (2016). Inter-rater reliability of published flow diversion occlusion scales. *J Neurointerv Surg*, 8(12), 1294-1298.
 52. **Mazur MD**, Taussky P, MacDonald JD, Park MS (2016). Rerupture of a Blister Aneurysm After Treatment With a Single Flow-Diverting Stent. *Neurosurgery*, 79(5), E634-E638.
 53. Ravindra VM, **Mazur MD**, Park MS, Kilburg C, Moran CJ, Hardman RL, Couldwell WT, Taussky P (2016). Complications in Endovascular Neurosurgery: Critical Analysis and Classification. *World Neurosurg*, 95, 1-8.
 54. Phuntsok R, **Mazur MD**, Ellis BJ, Ravindra VM, Brockmeyer DL (2016). Development and initial evaluation of a finite element model of the pediatric craniocervical junction. *J Neurosurg Pediatr*, 17(4), 497-503.

55. **Mazur MD**, Kilburg C, Park MS, Taussky P (2016). Patterns and Clinical Impact of Angiographically Visible Distal Emboli During Thrombectomy With Solitaire for Acute Ischemic Stroke. *Neurosurgery*, 78(2), 242-50.
56. **Mazur MD**, Ravindra VM (2015). Journal Club: Surgical Management of Trigeminal Neuralgia: Use and Cost-Effectiveness From an Analysis of the Medicare Claims Database. *Neurosurgery*, 77(5), 832-4.
57. **Mazur MD**, Ravindra VM, Schmidt MH, Brodke DS, Lawrence BD, Riva-Cambrin J, Dailey AT (2015). Unplanned reoperation after lumbopelvic fixation with S-2 alar-iliac screws or iliac bolts. *J Neurosurg Spine*, 23(1), 67-76.
58. Bisson EF, Mumert ML, **Mazur MD**, Dailey AT, Schmidt MH (2015). The Fate of Type II Odontoid Fractures after Posterior Atlantoaxial Fusion: Where Does Healing Occur? *J Neurol Surg A Cent Eur Neurosurg*, 76(4), 274-8.
59. **Mazur MD**, McEvoy S, Schmidt MH, Bisson EF (2015). High self-assessment of disability and the surgeon's recommendation against surgical intervention may negatively impact satisfaction scores in patients with spinal disorders. *J Neurosurg Spine*, 22(6), 666-71.
60. **Mazur MD**, Ravindra VM, Brockmeyer DL (2015). Unilateral fixation for treatment of occipitocervical instability in children with congenital vertebral anomalies of the craniocervical junction. *Neurosurg Focus*, 38(4), E9.
61. **Mazur MD**, Sivakumar W, Riva-Cambrin J, Jones J, Brockmeyer DL (2014). Avoiding early complications and reoperation during occipitocervical fusion in pediatric patients. *J Neurosurg Pediatr*, 14(5), 465-75.
62. **Mazur MD**, White A, McEvoy S, Bisson EF (2014). Transcranial magnetic stimulation of the motor cortex correlates with objective clinical measures in patients with cervical spondylotic myelopathy. *Spine (Phila Pa 1976)*, 39(14), 1113-20.
63. **Mazur MD**, Nguyen V, Fuhs DW (2012). Glioblastoma presenting with steroid-induced pseudoregression of contrast enhancement on magnetic resonance imaging. *Case Rep Neurol Med*, 2012, 816873.
64. **Mazur M**, Miller RH, Robinson S (2010). Postnatal erythropoietin treatment mitigates neural cell loss after systemic prenatal hypoxic-ischemic injury. *J Neurosurg Pediatr*, 6(3), 206-21.
65. Tang Q, **Mazur M**, Mellon PL (2005). The protein kinase C pathway acts through multiple transcription factors to repress gonadotropin-releasing hormone gene expression in hypothalamic GT1-7 neuronal cells. *Mol Endocrinol*, 19(11), 2769-79.
66. Mazur DJ, Hickam DH, **Mazur MD**, **Mazur MD** (2005). The role of doctor's opinion in shared decision making: what does shared decision making really mean when considering invasive medical procedures? *Health Expect*, 8(2), 97-102.
67. Mazur DJ, Hickam DH, **Mazur MD** (1999). How patients' preferences for risk information influence treatment choice in a case of high risk and high therapeutic uncertainty: asymptomatic localized prostate cancer. *Med Decis Making*, 19(4), 394-8.

REVIEW ARTICLES

1. Rajkumar S, Iyer RR, Stone L, Kelly MP, Plonsker J, Brandel M, Gonda DD, **Mazur MD**, Ikeda DS, Lucas DJ, Choi PM, Ravindra VM (2024). Frequency and predictors of complication clustering within 30 days of spinal fusion surgery: a study of children with neuromuscular scoliosis. [Review]. *Spine Deform*, 12, (3), 727-738.

2. Croci DM, Cole K, Sherrod B, Yen CP, Dailey AT, **Mazur MD** (2022). L4 Corpectomy: Surgical Approaches and Mitigating the Risk of Femoral Nerve Injuries. [Review]. *World Neurosurg*, 166, e905-e914.
3. Ravindra VM, **Mazur MD**, Driscoll M, McEvoy S, Schmidt MH (2016). BRCA2-positive spinal intramedullary ovarian metastatic disease: case report. [Review]. *Spine J*, 16, (3), e201-7.
4. Ravindra VM, **Mazur MD**, Kumpati GS, Park MS, Patel AN, Tandar A, Welt FG, Bull D, Couldwell WT, Taussky P (2016). Carotid Artery Stenosis in the Setting of Transcatheter Aortic Valve Replacement: Clinical and Technical Considerations of Carotid Stenting. [Review]. *World Neurosurg*, 86, 194-8.
5. Ravindra VM, **Mazur MD**, Mohila CA, Sweney MT, Hersh A, Bollo RJ (2015). Rasmussen encephalitis with dual pathology in a patient without seizures: case report and literature review. [Review]. *Childs Nerv Syst*, 31, (11), 2165-71.
6. **Mazur MD**, Ravindra VM, Alashari M, Raetz E, Poppe MM, Bollo RJ (2015). Primary T cell central nervous system lymphoblastic lymphoma in a child: case report and literature review. [Review]. *Childs Nerv Syst*, 31, (6), 977-84.
7. Ravindra VM, Neil JA, **Mazur MD**, Park MS, Couldwell WT, Taussky P (2015). Motion-related vascular abnormalities at the craniocervical junction: illustrative case series and literature review. [Review]. *Neurosurg Focus*, 38, (4), E6.
8. **Mazur MD**, Cutler A, Couldwell WT, Taussky P (2013). Management of meningiomas involving the transverse or sigmoid sinus. [Review]. *Neurosurg Focus*, 35, (6), E9.

9. **Mazur MD**, Mumert ML, Bisson EF, Schmidt MH (2011). Avoiding pitfalls in anterior screw fixation for type II odontoid fractures. [Review]. *Neurosurg Focus*, 31, (4), E7.
10. **Mazur M**, Jost GF, Schmidt MH, Bisson EF (2011). Management of cerebrospinal fluid leaks after anterior decompression for ossification of the posterior longitudinal ligament: a review of the literature. [Review]. *Neurosurg Focus*, 30, (3), E13.

BOOK CHAPTERS

1. **Mazur MD**, Shah L, Schmidt MH (2022). Spinal imaging. In HR Winn (Ed.), *Youmans and Winn Neurological Surgery* (8th edition). Philadelphia: Elsevier.
2. Ravindra VM, **Mazur MD**, Joyce E, Dailey AT (2021). Adult thoracic and lumbar deformity. In Goodrich JT, Keating RF (Eds.), *Schmidek & Sweet Operative Neurosurgical Techniques: Indications, Methods and Results (Chapter 172)*, (7th edition)p. 2004). Philadelphia: Elsevier.
3. Scoville J, **Mazur M**, Bisson EF (2021). Cervical spinal deformity. In *Schmidek & Sweet Operative Neurosurgical Techniques: Indications, Methods and Results (Chapter 171)*, (7th ed.)p. 1994). Philadelphia: Elsevier.
4. **Mazur MD**, Shaffrey CI, Riew KD, Ames CP, Smith JS (2019). Cervical Osteotomy Types. In Ames CP, Riew KD, Smith JS, Abumi K (Eds.), *Cervical Spine Deformity Surgery* (1st). New York: Thieme.
5. Decision Making in Cerebrovascular Diseases (2018). Blood-blister aneurysm. In L Rangel-Castilla, P Nakaji, AH Siddiqui, RF Spetzler, EI Levy (Eds.), *Decision Making in Neurovascular Diseases (ch. 50)*. New York: Thieme.
6. **Mazur MD**, Shah LM, Schmidt MH (2016). Assessment of spinal imaging. In Winn RH (Ed.), *Youmans and Winn Neurological Surgery* (7th Edition). Philadelphia, PA: Elsevier.
7. Neil J, **Mazur MD**, Couldwell WT (2015). Surgical management of planum and olfactory groove meningiomas. In Chang S, Veeravagu A (Eds.), *Current Management of Central Nervous System Meningiomas*. Hauppauge, NY: Nova Science Publishers.
8. **Mazur MD**, Schmidt MH (2013). Odontoid fracture and screw fixation. In Kim DH, Henn J, Vaccaro AR, Dickman CA (Eds.), *Surgical Anatomy and Techniques to the Spine* (2nd Edition). Philadelphia, PA: Elsevier.
9. Mazur DJ, **Mazur MD** (2007). Decision making in the patient-physician relationship. In Tolana PC (Ed.), *Decision Making in Medicine and Health Care.*. New York, NY: Nova Science Publishers.

ADDITIONAL PUBLICATIONS

Case Reports

1. Croci DM, Gamboa NT, Osman AEG, Maese L, **Mazur M**, Bisson EF, Dailey AT (2022). Solitary manifestations of primary B-lymphoblastic lymphoma of the spine: Systematic literature review with case illustration. *Clin Neurol Neurosurg*, 212 107064.
2. Sherrod BA, Condie CK, Brock AA, Ledyard H, Menacho ST, **Mazur MD** (2020). Emergent Reversal of Direct Oral Anticoagulants Permitting Neurosurgical Intervention for Nonhemorrhagic Pathology. *World Neurosurg*, 135 38-41.
3. Eli I, Guan J, Karsy M, **Mazur MD**, Dailey A (2019). A Case of Ventral Spinal Cord Herniation from a Chronic Dural-pleural Fistula Resulting in Thoracic Myelopathy. *Cureus*, 11(11), e6123.

4. **Mazur MD**, Kilburg C, Wang V, Taussky P (2016). Pipeline embolization device for the treatment of vertebral artery aneurysms: the fate of covered branch vessels. *J Neurointerv Surg*, 8(10), 1041-7.
5. **Mazur MD**, Ravindra VM, Dailey AT, McEvoy S, Schmidt MH (2015). Rigid Posterior Lumbopelvic Fixation without Formal Debridement for Pyogenic Vertebral Diskitis and Osteomyelitis Involving the Lumbosacral Junction: Technical Report. *Front Surg*, 2 47.
6. **Mazur MD**, Mumert ML, Schmidt MH (2015). Treatment of Costal Osteochondroma Causing Spinal Cord Compression by Costotransversectomy: Case Report and Review of the Literature. *Clin Pract*, 5(2), 734.
7. **Mazur MD**, Neil JA, Agarwal C, Jensen RL, Couldwell WT (2015). Surgical management of a transosseous meningioma with invasion of torcula, superior sagittal sinus, transverse sinus, calvaria, and scalp. *Surg Neurol Int*, 6 40.
8. **Mazur MD**, Duhon BS, Schmidt MH, Dailey AT (2013). Rectal perforation after AxiaLIF instrumentation: case report and review of the literature. *Spine J*, 13(11), e29-34.

Others

1. **Mazur MD**, Sivakumar W, Taussky P, Park MS (2015). New Reversal Agents for Oral Anticoagulants on the Horizon. *World Neurosurg* (84(6), pp. 1506-7). United States.
2. **Mazur MD** (Nov/Dec 2015). Study shows S2 alar iliac screws led to high L5-S1 fusion, low partial perilucency rates. *Spine Surgery Today*
3. **Mazur MD** (2015). S2 alar iliac screws may lead to fewer complications in lumbopelvic fixation vs iliac bolts. *Spine Surgery Today*
4. **Mazur MD**, Couldwell WT (2011). Investigating a candidate cell of origin for diffuse intrinsic pontine glioma. *World Neurosurg* (76(5), pp. 368-9). United States.

Multimedia

1. Fredrickson VL, Hollon TC, Rennert RC, **Mazur MD**, Couldwell WT (2022). Laminectomy at T4 and T5 for Resection of Symptomatic Cavernous Malformation. [World Neurosurg], United States.

PENDING PUBLICATIONS

Journal Articles

1. Gamblin AS, Awad AW, Karsy M, Guan J, **Mazur MD**, Bisson EF, Bihan O, Dailey AT (In press). Efficacy of Intraoperative Neuromonitoring During the Treatment of Cervical Myelopathy. *Indian Journal of Neurosurgery*.
2. Sherrod BA, Dailey AT, **Mazur MD** (2023). Closed Cervical Traction Techniques: Moving into the 21st Century. *J Neurosurg Spine*, 39(5), 618-627.
3. Kim LJY, **Mazur MD**, Dailey AT (in press). Mid- and long-term outcomes after total cervical disc arthroplasty compared with anterior cervical discectomy and fusion: a systematic review and meta-analysis of randomized controlled trials. *Clin Spine Surg*.
4. Zhang JK, Javeed S, Greenberg JK, Yakdan S, Kaleem MI, Botterbush KS, Bendict B, Dibble CF, Sun P, Sherrod B, Dailey AT, Bisson EF, Mahan MA, **Mazur M**, Song SK, Ray WZ (In press). Diffusion weighted imaging metrics characterize postoperative clinical outcomes following surgery for cervical spondylotic myelopathy. *Neurosurgery (Philadelphia)*.

POSTER PRESENTATIONS

- 2014 **Mazur MD**, Schmidt MH, Bisson EF. *Hospital utilization associated with smoking in patients undergoing cervical spine surgery*. Poster session presented at 30th Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL.
- 2014 **Mazur MD**, Wang M, Bisson EF. *The 10 meter walk test as a functional assessment in cervical myelopathy*. Poster session presented at 30th Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL.

ORAL PRESENTATIONS

Meeting Presentations

International

- 2025 ALIF Without Decompression, Lumbar Spine Conundrums, Special Course for the Lumbar Spine Research Society. Spine Summit 2025. Tampa, FL.
- 2024 Dysphagia and Dysphonia after Anterior Cervical Surgery, What to do? Symposium hosted by CSRS: How to Prevent and Overcome Complications in Cervical Spine Surgery. Global Spine Congress 2024, Bangkok, Thailand.
- 2024 Does Optimization of Metabolic Parameters Improve Outcomes in Lumbar Spine Surgery? Lumbar Spine Research Society 2024 Annual Meeting. Chicago, IL.
- 2024 Gautam D, Vivekanandan S, **Mazur MD**. Classification of Robotic-Assisted Pedicle Screw Errors. Lumbar Spine Research Society 2024 Annual Meeting. Chicago, IL.
- 2023 Sherrod BA, **Mazur MD**. Motorized Cervical Traction vs. Weight and Pulley Traction: A Cadaveric Biomechanical Comparison. Presented at the 51st Annual Meeting of the Cervical Spine Research Society. Las Vegas, NV.
- 2023 Twitchell S, **Mazur MD**. Establishing a Benchmark for Iatrogenic Hemodilution and Blood Transfusion in Long-Segment Spine Fusion Surgery. Presented at the 9th Annual International Spine Deformity Symposium, New York, NY.
- 2023 Cervical Traction: Standards and Innovation, Oral Presentation at the Cervical Spine Research Society symposium for the Global Spine Congress, Prague, Czech Republic.
- 2023 Closed Cervical Traction Using a Motorized Robot: An AO Spine Young Investigators Research Grant Funded Study. Oral Presentation at the Global Spine Congress, Prague, Czech Republic.
- 2022 Crossfire Debate in Neurotrauma: Open Fusion for Burst Fracture--Con, Oral Presentation at the Congress of Neurological Surgeons Annual Meeting, San Francisco, CA.
- 2022 Scientific Abstract Discussant, Annual Meeting of the Section on Disorders of Spine and Peripheral Nerves - Spine Summit, Las Vegas, NV.
- 2020 Scoville J, **Mazur MD**, A Radiographic Analysis of Optimal Pelvic Fixation

2020

Trajectories, 13th Annual Meeting, Lumbar Spine Research Society
Challenging Board Cases: Cervical Spine, Annual Meeting of the Section on
Disorders of Spine and Peripheral Nerves - Spine Summit, Las Vegas, NV.

- 2018 **Mazur MD, Buell TJ, Nguyen JH, Mullin JP, Garces J, Taylor DG, Yen CP, Shaffrey CI, Smith JS.** Extended Pedicle Subtraction Osteotomy for Correction of Fixed Sagittal Imbalance in Patients with Adult Spinal Deformity: Complications and Radiographic Outcomes After 2-year Minimum Follow-Up. 16th Annual AO Spine Fellows Forum, Banff, AB.
- 2017 **Mazur MD, Bisson EF.** Is three months an appropriate time to evaluate clinical outcomes after anterior cervical discectomy and fusion? 33rd Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV
- 2017 **Mazur MD, Holland C, Bisson EF, Schmidt MH, Dailey AT.** Trends in patient care for traumatic spinal injuries in the United States. 33rd Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV
- 2016 **Mazur MD, Dailey AT, Shah LM, MacDonald JD.** Should asymptomatic levels with MRI abnormalities be included in an ACDF construct? A Long-Term MRI Analysis. 44th Annual Meeting of the Cervical Spine Research Society, Toronto, ON, Canada
- 2016 **Mazur MD, Dailey AT, Shah LM, Burnett B, MacDonald JD.** Symptomatic adjacent segment degeneration after ACDF: long-term MRI analysis. 32nd Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL
- 2015 **Mazur MD, Couldwell WT, Cutler A, Shah LM, Brodke DS, Bacchus K, Dailey AT.** Destabilization of the occipitocervical junction after a far lateral condylar resection: a biomechanical analysis. 83rd Annual American Association of Neurological Surgeons (AANS) Scientific Meeting, Washington, DC
- 2015 **Mazur MD, Phuntsok R, Ellis B, Ravindra VM, Brockmeyer DL.** Development and validation of a pediatric occipitocervical junction finite element model: a biomechanical comparison. 83rd Annual American Association of Neurological Surgeons (AANS) Scientific Meeting, Washington, DC
- 2015 **Mazur MD, Mahan MA, Dailey AT.** Radiographic fate of S2-alar-iliac screws after 12-month minimum follow-up. 8th Annual Meeting of the Lumbar Spine Research Society, Chicago, IL
- 2015 **Mazur MD, Brodke DS, Dailey AT.** Restabilization of the occipitocervical junction after a complete unilateral condylectomy: a biomechanical comparison of unilateral and bilateral fixation techniques. 31st Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ
- 2015 **Mazur MD, Mahan MA, Shah LS, Dailey AT.** Radiographic fate of S2-alar-iliac screws after 12-month minimum follow-up. 31st Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ

- 2014 **Mazur MD**, Couldwell WT, Dailey AT. Destabilization and restabilization of the occipitocervical junction after a far lateral transcondylar resection: a biomechanical analysis. 76th Annual Meeting of the American Academy of Neurological Surgeons, Santa Rosa Beach, FL
- 2014 **Mazur MD**, Ravindra VM, Schmidt MH, Lawrence BD, Brodke DS, Dailey AT. Lumbopelvic fixation with S2-alar-iliac screws or iliac bolts: risk factors for reoperation. 7th Annual Meeting of the Lumbar Spine Research Society, Chicago, IL
- 2014 **Mazur MD**, Ellis BJ, Brockmeyer DL. Finite element analysis of the pediatric occipitoatlantoaxial complex. 82nd American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, San Francisco, CA
- 2014 **Mazur MD**, Kilburg C, Taussky P. Embolic complications associated with the Solitaire flow restoration device during thrombectomy for acute ischemic stroke. 82nd American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, San Francisco, CA
- 2014 **Mazur MD**, McEvoy S, Schmidt MH, Bisson EF. Pain, disability and the surgeon's recommendation against surgical intervention may negatively impact satisfaction scores in patients with spinal disorders. 30th Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL
- 2014 **Mazur MD**, Ravindra V, Schmidt MH, Lawrence B, Brodke D, Dailey AT. Outcomes of pelvic lumbar fixation using S2-alar-iliac screws or iliac bolts. 30th Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL
- 2013 **Mazur MD**, Sivakumar W, Riva-Cambrin J, Jones J, Brockmeyer DL. Occipitocervical fusion in the pediatric population: analyzing risk factors for nonunion. Presented at the 42nd Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Toronto, ON
- 2013 **Mazur MD**, Sivakumar W, Riva-Cambrin J, Jones J, Brockmeyer DL. Occipitocervical fusion in the pediatric population: analyzing risk factors for nonunion. Presented at the 42nd Annual Meeting of the Congress of Neurological Surgeons (CNS)/American Association of Neurological Surgeons (AANS) Section on Pediatric Neurological Surgery, Toronto, ON, Canada

National

- 2024 Which Optimization Strategies Decrease Medical Complications in Adult Spinal Deformity Surgery? Scoliosis Research Society Symposium. 2025 Congress of Neurological Surgeons Annual Meeting. Houston, TX.

Local/Regional

- 2022 Robotic Cervical Traction: Biomechanical Proof of Concept, Oral Presentation at the Western Neurosurgical Society, Waimea, HI.

- 2022 **Mazur MD**, Thoracolumbar Burst Fractures, Oral Presentation at the Western Neurosurgical Society Meeting, Waimea, HI.
- 2017 **Mazur MD**, Dailey AT. Fixed cervical deformity: hemivertebra of the cervical spine. 43rd Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2016 **Mazur MD**, MacDonald JD. Symptomatic adjacent segment degeneration after anterior cervical discectomy and fusion: long-term MRI analysis. 50th Annual Meeting of the Rocky Mountain Neurosurgical Society, Colorado Springs, CO
- 2016 **Mazur MD**, Taussky P, Park MS. Predictors of residual aneurysm filling after flow diversion. 42nd Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2016 **Mazur MD**, Shah LM, MacDonald JD. Symptomatic adjacent segment degeneration after anterior cervical discectomy and fusion: long-term MRI analysis. 42nd Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2015 **Mazur MD**, Phuntsok R, Ravindra VM, Ellis B, Brockmeyer D. Validation of the finite element model of the pediatric occipitoatlantoaxial complex. 41st Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2015 **Mazur MD**, Schmidt MH, Bisson EF. Cost-effectiveness of elective anterior cervical discectomy and fusion. 41st Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2014 **Mazur MD**, Cutler A, Couldwell WT, Shah LM, Bachus K, Brodke DS, Dailey AT. Craniocervical instability after transcondylar approaches to the skull base: a biomechanical analysis. 40th Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2014 **Mazur MD**, Ellis B, Brockmeyer DL. The finite element method for analyzing pediatric spine biomechanics. 40th Annual Richard Lende Winter Neurosurgery Conference, S University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2012 **Mazur MD**, Mumert ML, Schmidt MH, Bisson EF. Avoiding pitfalls in anterior fixation of odontoid fractures. 38th Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT
- 2011 **Mazur M**, Jost GF, Schmidt MH, Bisson EF. Management of cerebrospinal fluid leaks after anterior decompression for ossification of the posterior longitudinal ligament. 37th Annual Richard Lende Winter Neurosurgery Conference, University of Utah Health/American Association of Neurological Surgeons (AANS), Snowbird, UT

Invited/Visiting Professor Presentations

International

2019

Lateral Approaches to the Thoracic and Lumbar Spine, Guigang City People's Hospital, Guigang City, China, March 7, 2019.

National

2022

Radiographic Analysis of Spinal Deformity from a Surgeon's Perspective, American Society of Spine Radiology, Austin, TX.

Grand Rounds Presentations

2026	Cauda Equina Syndrome: A Practical Guide to a Surgical Emergency, Pacific Neuroscience Institute/Providence Southern California Grand Rounds
2025	Diagnosing and Treating Adult Spinal Deformity: Current Best Evidence, Pacific Neuroscience Institute/Providence Southern California Grand Rounds
2022	Anterior Column Reconstruction, Department of Neurosurgery Grand Rounds, University of Utah.
2021	Adult Spinal Deformity. Department of Neurosurgery Grand Rounds, University of Utah.
2021	Spondylodiscitis. Department of Neurosurgery Grand Rounds, University of Utah
2019	Cervical Spine Deformity, Department of Neurosurgery, Oregon Health and Science University, Portland, Oregon, June 3, 2019.

INTELLECTUAL PROPERTY**Patents**

02/24/2023	Mazur, Marcus Dennis (Pending). Motorized Skeletal Traction Device
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