

CURRICULUM VITAE

PERSONAL INFORMATION

Elias Shaaya, MD

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EDUCATION

Undergraduate: Harvard University, 5/24/12, B.A. in Molecular and Cellular Biology and Global Health and Health Policy

Medical School: Georgetown University School of Medicine, 5/21/2017, Medical Degree

POSTGRADUATE TRAINING

Residency: Rhode Island Hospital/The Warren Alpert Medical School, Neurological Surgery, June 19th 2017-June 30th 2024

Fellowship: Rhode Island Hospital/The Warren Alpert Medical School, Interventional Neuroradiology, July 1st 2024-June 30th 2025

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Rhode Island Medical License

Massachusetts Medical License

HOSPITAL APPOINTMENTS

Neurosurgeon at Rhode Island Hospital, October 1st 2025 – present.

MEMBERSHIP IN SOCIETIES

American Association of Neurological Surgeons

Congress of Neurological Surgeons
Society of Neurointerventional Surgery
International Lebanese Medical Association – USA
World Federation of Lebanese Neurosurgeons

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

Microbubble contrast-enhanced transcutaneous ultrasound enables real-time spinal cord perfusion monitoring following posterior cervical decompression

Leary OP, Shaaya E, Chernysh AA, Seidler M, Sastry RA, Persad-Pasiley E, Zhu M, Gokaslan ZL, Oyelese AA, Beland MD, Frdiley JS. World Neurosurg. 2024 Jun.

An active electronic, high-density epidural paddle array for chronic spinal cord neuromodulation

Parker SR, Calvert JS, Darie R, Jang J, Govindarajan LN, Angelino K, Chitnis G, Iyassu Y, Shaaya E, Fridley JS, Serre T, Borton DA, McLaughlin BL. bioRxiv. 2024 Jun.

Gross total resection and survival outcomes in elderly patients with spinal chordoma: a SEER-based analysis

Pham J, Shaaya E, Rhee B, Kimata A, Ozcan EE, Niu T, Sullivan P, Gokaslan ZL. Frontiers in Onc. 2024 Jan.

Spatiotemporal distribution of electrically evoked spinal compound action potentials during spinal cord stimulation

Calvert JS, Darie R, Parker SR, Shaaya E, Syed S, McLaughlin BL, Fridley JS, Borton DA. Neuromodulation. 2023 Jul.

Endoscopic Techniques for Spinal Oncology: A Systemic Literature Review

Ali R, Hagan MJ, Shaaya E, Leary OP, Feler J, Bajaj A, Gokaslan ZL, Konakondla S, Mahan M, Wagner R, Lewandrowski K, Telfeian AE. IJSS. 2023 Jun.

Initial experience with transcarotid arterial revascularization with flow reversal in the management of symptomatic carotid stenosis

Feler J, Torabi R, Moldovan K, Poggi J, Shaaya E, Anderson M, Ayala C, Bajaj A, Monje S, Doberstein C. Jour of Neurosurg. 2023 Apr.

Marital Status Independently Predicts Mortality in Adult Patients with Craniopharyngioma: A SEER-Based Study

Pham J, Rhee B, Malpass R, Ozcan EE, Shaaya E, Doberstein C, Toms S, Sullivan P. World Neurosurg. 2023 Mar.

Development of Posttraumatic Frontal Brain Abscess in Association with an Orbital Roof Fracture and Odontogenic Abscess: A Case Report

Abdulrazeq H, Walke K, Sampath S, Shaaya E, Beqiri D, Woo A, Sampath P. Jour of Neurologic Surg Part B: Skull Base. 2023 Feb.

A review of functional restoration from spinal cord stimulation in patients with spinal cord injury

Lin A, Shaaya E, Calvert J, Parker S, Borton D, Fridley J. Neurospine. 2022 Sept.

Fast Inference of Spinal Neuromodulation for Motor Control using Amortized Neural Networks

Govindarajan L, Calvert J, Parker S, Jung M, Darie R, Miranda P, Shaaya E, Borton D, Serre T. Jour of Neural Eng. 2022 Sept.

Safety of sheathless transradial balloon guide catheter placement for acute stroke thrombectomy

Feler J, Hagan M, Shaaya E, Anderson M, Poggi J, Chuck C, Bajaj A, Moldovan K, McTaggart R, Haas R, Jayaraman M, Torabi R. World Neurosurg. 2022 Jun.

Navigation Techniques in Endoscopic Spine Surgery

Hagan M, Remacle T, Leary O, Feler J, Shaaya E, Ali R, Zheng B, Bajaj A, Traupe E, Kraus M, Zhou Y, Fridley J, Lewandrowski K, Telfiean A. Biomed Research International. 2022 Aug.

Incidence, Characteristics, and Outcomes of Pseudomeningocele and CSF Fistula after Posterior Fossa Surgery

Sastry R, Walek K, Rex N, Leary O, Shaaya E, Poggi J, Cielo D. World Neurosurg. 2022 May.

Utility of Automated MRI Perfusion (RAPID) with or without MR Angiography for Detection of Angiographic Vasospasm after Aneurysmal Subarachnoid Hemorrhage

Rahul Sastry, Ankush Bajaj, Elias Shaaya, Matthew Anderson, Curt Doberstein. Jour of Clin Neuroscience. 2022 Jun; 100:143-7.

Neighborhood-level Socioeconomic Status Predicts Extended Length of Stay Following Elective Anterior Cervical Spine Surgery

Hagan MJ, Sastry RA, Feler J, Shaaya E, Sullivan PZ, Fernandez Abinader J, Camara JQ, Niu T, Fridley JS, Oyelese AO, Sampath P, Telfeian AE, Gokaslan ZL, Toms SA, Weil RJ. World Neurosurg. 2022 Apr.

Influence of Time of Discharge and Length of Stay on 30-Day Outcomes After Elective Anterior Cervical Spine Surgery

Sastry RA, Hagan MJ, Feler J, Shaaya E, Sullivan PZ, Fernandez Abinader J, Camara JQ, Niu T, Fridley JS, Oyelese AO, Sampath P, Telfeian AE, Gokaslan ZL, Toms SA, Weil RJ. Neurosurg. 2022 Apr.

Endoscopic Techniques for Lumbar Interbody Fusion: Principles and Context

Zheng B, Shaaya E, Feler J, Leary OP, Hagan MJ, Bajaj A, Fridley J, Hassel F, Gardocki R, Casal-Grau R, Lewandrowski K, Telfeian A. Biomed Research International. 2022 Mar.

In reply to the Letter to the Editor regarding “The National Student Neurosurgical Research Conference: A Research Conference for Medical Students”

Barrios-Anderson A, Liu DD, Snead J, Wu E, Lee DJ, Robbins J, Aguirre J, Tang O, Garcia CM, Pucci F, Anderson MN, Syed S, Shaaya E, Gokaslan ZL. World Neurosurg. 2022 Jan;157:259.

Endoscopic Spine Surgery of the Cervicothoracic Spine: A Review of Current Applications

Shen J, Shaaya E, Bae J, Telfeian A. International Journal of Spine Surgery. 2021 Dec;15:S93-103.

Intraoperative Monitoring of Spinal Cord Perfusion using Ultrasound in an Ovine Model

Shaaya E, Calvert J, Wallace K, Parker S, Darie R, Syed S, Fridley J, Parthasarathy G, Duclos S, Borton D. 2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC). 2021 Nov; 3813-16.

A survey study examining the motivations, concerns, and perspectives of medical students engaging in neurosurgical research

Barrios-Anderson A, Wu E, Liu D, Snead J, Wu E, Lee DJ, Robbins J, Aguirre J, Tang O, Garcia CM, Pucci F, Anderson MN, Syed S, Shaaya E, Gokaslan ZL. Surgical Neurology International. 2021 Sep;12:490.

Existing clinical evidence on the use of cellular bone matrix grafts in spinal fusion: updated systematic review of the literature

Darveau S, Leary O, Persad-paisley E, Shaaya E, Oyelese A, Fridley J, Sampath P, Camara-Quintana J, Gokaslan Z, Niu T. Neurosurgical Focus. 50 (6), E12.

The National Student Neurosurgical Research Conference: A Research Conference for Medical Students

Barrios-Anderson A, Liu DD, Snead J, Wu E, Lee DJ, Robbins J, Aguirre J, Tang O, Garcia CM, Pucci F, Anderson MN, Syed S, Shaaya E, Gokaslan ZL. World Neurosurg. 2021 Feb;146:e398-e404.

Examining the Motivations, Concerns, and Perspectives of Medical Students Engaging in Neurological Surgery Research

Barrios-Anderson A, Liu DD, Snead J, Wu E, Lee DJ, Robbins J, Aguirre J, Tang O, Garcia CM, Pucci F, Anderson MN, Syed S, Shaaya E, Gokaslan ZL. Neurosurgery. 2020 Dec.

Emergency medical services protocols for traumatic brain injury in the United States: A call for standardization

Chuck CC, Martin TJ, Kalagara R, Shaaya E, Kheirbek T, Cielo D. Injury. 2021 Jan 10:S0020-1383(21)00024-3.

Transforaminal Endoscopic Solutions for Anterior Lumbar Interbody Fusion Complications

Telfeian AE, Shen J, Shaaya E, Oyelese A, Fridley J, Gokaslan Z. World Neurosurg. 2020 Nov;143:e122-e126.

Full endoscopic cervical spine surgery

Shen J, Telfeian AE, Shaaya E, Oyelese A, Fridley J, Gokaslan ZL. J Spine Surg. 2020 Jun;6(2):383-390.

Awake, Endoscopic Revision Surgery for Lumbar Pseudarthrosis After Transforaminal Lumbar Interbody Fusion: Technical Notes

Telfeian AE, Moldovan K, Shaaya E, Syed S, Oyelese A, Fridley J, Gokaslan ZL. World Neurosurg. 2020 Apr;136:117-121.

Posterior Nerve-Sparing Multilevel Cervical Corpectomy and Reconstruction for Metastatic Cervical Spine Tumors: Case Report and Literature Review

Shaaya E, Fridley J, Barber SM, Syed S, Xia J, Galgano M, Oyelese A, Telfeian A, Gokaslan Z. World Neurosurg. 2019 Feb;122:298-302.

Seizure treatment in Angelman syndrome: A case series from the Angelman Syndrome Clinic at Massachusetts General Hospital

Shaaya EA, Grocott OR, Laing O, Thibert RL. Epilepsy Behav. 2016 Jul;60:138-41.

Gastrointestinal problems in 15q duplication syndrome

Shaaya EA, Pollack SF, Boronat S, David-Cooper S, Zella GC, Thibert RL. Eur J Med Genet. 2015 Mar;58(3):191-3.

Angelman Syndrome in Adulthood

Larson AM, Shinnick JE, Shaaya EA, Thiele EA, Thibert RL. Am J Med Genet A. 2015 Feb;167A(2):331-44.

Tuberous sclerosis complex without tubers and subependymal nodules: a phenotype-genotype study

Boronat S, Shaaya EA, Doherty CM, Caruso P, Thiele EA. Clin Genet. 2014 Aug;86(2):149-54.

Hippocampal Abnormalities in Magnetic Resonance Imaging (MRI) in 15q Duplication Syndrome

Boronat S, Mehan WA, Shaaya EA, Thibert RL, Caruso P. J Child Neurol. 2015 Mar;30(3):333-8.

Intracranial Arteriopathy in Tuberous Sclerosis Complex

Boronat S, Shaaya EA, Auladell M, Thiele EA, Caruso P. J Child Neurol. 2013 Sep 20;29(7):912-919.

Cardiac fat-containing lesions are common in tuberous sclerosis complex

Shaaya EA, Hirshberg JS, Rabe OT, Thibert RL, Inglessis I, Sharma A, Thiele EA. Am J Med Genet A. 2013 Jul;161A(7):1662-5.

BOOKS AND BOOK CHAPTERS

OTHER NON-PEER REVIEWED PUBLICATIONS

Endoscopic Approaches to the Cervical Spine

Shen J, Bae J, Shaaya E, Telfeian A. Benzel's Spine Surgery: Techniques, Complication Avoidance and Management. 5th Edition. 2021 p.1116-21

ABSTRACTS

International Medical Graduates' Contribution to the Field of Neurosurgery

Shaaya E, Sullican P, Gokaslan ZL. Physical Poster at the Annual meeting of the Congress of Neurosurgeons 2022.

In Vivo Evaluation of Spinal Cord Perfusion Using Contrast-Enhanced Transcutaneous Ultrasound

Shaaya E, Leary OP, Sastry R, Zhu M, Persad-Paisley E, Seidler M, Beland M, Fridley J. Oral Presentation at the Annual meeting of the Congress of Neurosurgeons 2022.

Ultrasound Examination of Spinal Cord Perfusion in an Ovine Model

Shaaya E, Calvert J, Wallace K, Parker S, Darie R, Syed S, Fridley J, Parthasarathy G, Duclos S, Borton D. Presented at the 50th Annual Meeting of the Society for Neuroscience 2021.

Mediolateral Spinal Cord Field Potentials Enable Real-time Decoding of Gait Cycle in an Ovine Model

Parker S, Calvert J, Darie R, Shaaya E, Govindarajan L, Jung M, Serre T, McLaughlin B, Borton D. Presented at the 50th Annual Meeting of the Society for Neuroscience 2021.

Spatiotemporal Distribution of Electrically Evoked Spinal Compound Action Potentials During Spinal Cord Stimulation

Calvert J, Darie R, Parker S, Shaaya E, Syed S, Mclaughlin B, Fridley J, Borton D. Presented at the 50th Annual Meeting of the Society for Neuroscience 2021.

Intraoperative Monitoring of Spinal Cord Perfusion using Ultrasound in an Ovine Model

Shaaya E, Calvert J, Wallace K, Parker S, Darie R, Syed S, Fridley J, Parthasarathy G, Duclos S, Borton D. Presented at the 43rd International Conference of the IEEE Engineering in Medicine and Biology Society 2021.

Outcomes after Early and Very Early Pediatric Cranioplasty following Decompressive Craniectomy: A Single-Institutional Series

Elaina J Wang; Rahul A Sastry; Elias A Shaaya; Konstantina Svokos. Virtual poster at the 2021 American Association of Neurological Surgeons.

Utility of Automated MRI Perfusion (RAPID) with or without MR Angiography for Detection of Angiographic Vasospasm after Aneurysmal Subarachnoid Hemorrhage

Rahul Sastry, Ankush Bajaj, Elias Shaaya, Matthew Anderson, Curt Doberstein. Virtual poster at the 2021 American Association of Neurological Surgeons.

Intradural Lumbar Discs: Literature Review and Case Series

Shaaya E, Meisner L, Fridley J, Telfeian A, Barber S. Presented at 2019 American Association of Neurological Surgeons.

Posterior Cervical Corpectomy and Decompression for Tumor Resection

Shaaya E, Galgano M, Fridley J, Gokaslan Z. Presented at the 2018 American Association of Neurological Surgeons.

Splenic Volume Changes After Radioembolization with Yttrium-90 Resin Microspheres as A Marker for Treatment Response

Baghai S, Shaaya E, Kim A. Presented at the 2016 World Convention on Interventional Oncology.