

CURRICULUM VITAE

JONATHAN J. RUSSIN, MD, MA

PERSONAL INFORMATION:

Work

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Home

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Shelburne, VT 05482
Citizenship: USA

EDUCATION AND PROFESSIONAL APPOINTMENTS

EDUCATION:

2000	Bachelors of Science, Drew University, Madison NJ
2002	Masters of Arts in Medical Humanities, Health and Society, Drew University, Madison NJ
2006	Doctor of Medicine, New Jersey Medical School, Newark NJ

POST-GRADUATE TRAINING:

2006-2007	General Surgery Internship, University of Southern California, Los Angeles, CA
2007-2013	Neurosurgical Residency, University of Southern California, Los Angeles, CA
2013-2014	Cerebrovascular and Skull Base Fellowship, Barrow Neurological Institute, Phoenix, AZ

ACADEMIC APPOINTMENTS:

2021-2025	Visiting Associate in Medical Engineering	Division of Engineering and Applied Science California Institute of Technology
2022-2023	Assistant Professor	Department of Biomedical Engineering USC Viterbi School of Engineering
2023-2025	Associate Professor, (Clinical Scholar)	Department of Biomedical Engineering USC Viterbi School of Engineering
2025-current	Associate Professor, (Clinical Scholar)	Raymond M.P. Donaghy Professorship Larner College of Medicine

CLINICAL APPOINTMENTS:

2014-2023	Assistant Professor	Department of Neurological Surgery, University of Southern California, Los Angeles, CA
2023-2025	Associate Professor, (Clinical Scholar)	Department of Neurological Surgery, University of Southern California, Los Angeles, CA
2025-present	Associate Professor, (Clinical Scholar)	Division of Neurological Surgery University of Vermont

ADMINISTRATIVE APPOINTMENTS:

2014-2021	Director, Cerebral Revascularization Center	Keck Medical Center of USC, Los Angeles, CA
2014-2016	Assistant Director, Neurorestoration Center	Keck Medical Center of USC, Los Angeles, CA
2016-2025	Faculty, Neuro-otology fellowship	Keck Medical Center of USC, Los Angeles, CA

2016-2025	Associate Director, Neurorestoration Center	Keck Medical Center of USC, Los Angeles, CA
2018-2025	Director, Cerebrovascular Surgery	Keck Medical Center of USC, Los Angeles, CA
2020-2025	Fellowship Director, Open Cerebrovascular	Keck Medical Center of USC, Los Angeles, CA
2021-2025	Director, Neurorevascularization Ctr	Keck Medical Center of USC, Los Angeles, CA
2023-2025	Budget Committee	Department of Neurological Surgery,
1/2025–8/2025	Director of Neurosurgery	USC Arcadia Hospital, Arcadia, CA
1/2025-8/2025	Neurosurgery Site Director, Anesthesia Intern Rotation	USC Arcadia Hospital, Arcadia, CA
2020-current	Director, Southwest Cerebrovascular Rounds/Consortium	USC, Barrow Neurologic Institute, UCSD, Stanford, NYU
2025-current	Neurosurgeon-in-Chief	University of Vermont Medical Center, Burlington, VT

LICENSURE, CERTIFICATIONS

LICENSURE:

2008	Medical, A103488, CA, Active
2025	Medical, 042.0018804, VT, Active

BOARD CERTIFICATION OR ELIGIBILITY:

2018	American Board of Neurological Surgeons, Active
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HONORS, AWARDS:

1994	Eagle Scout	Boy Scouts of America
1999, 2000	All – Academic Team	Men's Lacrosse – Drew University
2001	2 nd Team All-Conference	Men's Lacrosse –Drew University
2003	Alumni Scholarship	New Jersey Medical School
2004	Van Houten Scholarship	New Jersey Medical School
2005	Kowalski Scholarship	New Jersey Medical School
2005	Alpha Omega Alpha	New Jersey Medical School
2015	Michael L.J. Apuzzo Research Award	Dept of Neurological Surgery, USC
2016, '21	Best Case Selection	American Society of Reconstructive Microsurgery
2017	Alumni Award for Achievement in the Sciences	Drew University, Madison NJ
2017, '19,'24	Top Doctors	Pasadena Magazine
2019,'20,'21	Superdoctors	Rising Star
2020	Nominated Member	Sigma Xi, Scientific Research Honor Society
2020	USC Neurosurgery Teaching/Mentorship Award	USC Dept of Neurosurgery
2021,'24	Top Doctors	Los Angeles Magazine
2021	Best Paper Award	Society of Photo-Optical Instrumentation Engineers
2023,'24	Superdoctors	Neurosurgery, Los Angeles
2025	Top Doctor	Castle Connolly

TEACHING

DIDACTIC TEACHING:

Barrow Neurological Institute		
2015-2016	EC/IC Bypass Course	Course Faculty
Mayo Clinic, Rochester MN		
2018	Cerebral Bypass and Advanced Endovascular	Course Faculty
Congress of Neurological Surgeons		
2018-2022	Bypass Techniques in Cerebrovascular Surgery	Course Faculty
2023	Bypass Techniques in Cerebrovascular Surgery	Course Co-Director
American Association of Neurological Surgeons		
2019	Cerebral Bypass Surgery	Course Director

UNDERGRADUATE, GRADUATE AND MEDICAL STUDENT (OR OTHER) MENTORSHIP:

2017-2019	Kristine Ravina	Research Fellow	Botulinum toxin for spasmolysis
2018	Alice Chun	Research Student	CA <i>in situ</i> bypass
2019	Jordan Lam	Research Fellow	IC/Bypass for High-Grade SAH
2019	Yelim Lee	Research Student	EC/IC vs IC/IC bypass
2021-2026	Nadiya Atai	Research Fellow	Flow800 for bypass
2021-2023	Aidin Abedi	Research Fellow	3B Permeability in aSAH
2022-2024	Hayan Khan	Undergraduate	QOL in Bypass patients
2022-2024	Sarah Sternbach	Medical Student	Intraoperative Flow800 for bypass
2025-current	Michael Bergner	Medical Student	Kinematics in Concussion

POSTGRADUATE MENTORSHIP:

2014-2019	Dan Kramer	Assistant Professor, U of Colorado
2014-2025	Vivek Mehta	Private Practice, Hoag Hospital
2014-2025	Ben Strickland	Assistant Professor, U of South Carolina
2014-2026	Ben Yim	Private Practice, John Muir Health
2016-current	Rob Rennert	Assistant Professor, U of Utah
2017-2020	Kristine Ravina	PGY 5 Virginia Tech
2018-current	Tats Fujii	Assistant Professor, USC
2020-2024	Shivani Rangwala	Endovascular Fellow, Boston Children's
2020-2022	Shuai Na	Assistant Professor, Peking University
2021-2025	Yang Zhang	Postdoc, Caltech
2021-2025	Joshua Olick-Gibson	Postgrad, Caltech
2022-current	Vincent Nguyen	Assistant Professor, University of Rochester
2023-current	Anand Kaul	Cerebrovascular Fellow, USC
2025-current	Elizabeth Wicks	NS Resident

SERVICE**DEPARTMENT SERVICE:**

2009-2011	Coordinator, Skull Base Lab	Dept Neurological Surgery, KSOM
2010-2012	Coordinator, Microvascular Lab	Dept Neurological Surgery, KSOM
2014-2025	Director, Cerebral Revascularization Center	Dept Neurological Surgery, KSOM
2014-2025	Faculty, Neurorestoration Center	Dept Neurological Surgery, KSOM
2016-2025	Associate Director, Neurorestoration Center	Dept Neurological Surgery, KSOM
2018-2025	Director, Cerebrovascular Surgery	Dept Neurological Surgery, KSOM
2020-2025	Fellowship Director, Open Cerebrovascular	Dept Neurological Surgery, KSOM

2025-current	Neurosurgeon-in-Chief	Neurological Surgery, UVM
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HEALTH SYSTEM SERVICE:

2026-current	Inpatient & Post-Acute Practice Committee	UVMH Medical Group
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MEDICAL SCHOOL SERVICE:

2021-2023	Joint OR Subcommittee Member	Keck Hospital
2022-2025	Service Line Care Transformation	Keck Hospital
2024-2025	Bioethics Committee	USC Arcadia Hospital

PROFESSIONAL SERVICE:

2015-2017	Webpage Editor	AANS/CNS Joint CV Section
2015	Abstract Review/Selection Committee	CNS
2017-2020	Website Committee Chair	AANS/CNS Joint CV Section
2018-2023	Annual Meeting Abstract Reviewer	AANS
2018-2022	DSMB Member	INVEST Trial
2020	Program Committee	Joint CV Section Annual Meeting
2022-current	Fellowship Review Committee for CV	CAST
2023-24	Vice Chair for CV Section Scientific Programming Committee	AANS, CNS & Joint CV Section Meetings
2024-25	Chair for CV Section Scientific Programming Committee	AANS, CNS & Joint CV Section Meetings
2026	Chair for CV Section Scientific Programming Committee	SNIS/CV Section Meeting

PROFESSIONAL SOCIETY MEMBERSHIPS:

2005-current	Alpha Omega Alpha Medical Honor
2013-current	Joint Cerebrovascular Section-AANS/CNS
2006-current	Congress of Neurological Surgeons-CNS
2006-current	American Association of Neurological Surgeons-AANS
2018-current	American Board of Neurological Surgery-ABNS
2024-current	Fellow of the Congress of Neurological Surgeons

COMMUNITY SERVICE:

2014	Co-Founder	NeuroICU-to-26.2/USC, LA	Brain Aneurysm Awareness
2021	Co-Founder	Iron Anniversary Fundraiser	Brain Aneurysm Awareness
2021-current	Treasurer/CFO	Board of Directors	WeRunWithYou 501(c)(3)
2023-2025	Co-Founder	Holiday Marketplace Fundraiser	Stroke Awareness

RESEARCH AND SCHOLARSHIP

MANUSCRIPT REVIEW:

2015-current	World Neurosurgery
2017-current	Journal of Clinical Neuroscience
2018-current	Operative Neurosurgery
2020-current	Scientific Reports
2020-current	Frontiers in Surgery, section Neurosurgery
2020-current	Journal of Neurology Neurosurgery and Psychiatry
2021-current	JNIS
2022-current	PloS One
2023-current	Neurosurgery

GRANT REVIEWS:

2016	Reviewer	Barrow Neurological Foundation, Phoenix, AZ, USA
2020	Reviewer	NREF, Rolling Meadows, IL, USA
2020	Reviewer	KSOM Dean's Pilot Funding, Los Angeles, CA, USA
2025	Reviewer	LCOM Internal Grant Program

MAJOR AREAS OF RESEARCH INTEREST

1. Novel techniques for improving neurorevascularization
2. Advanced functional imaging technologies
3. Evolving new targets/therapeutics for medically resistant epilepsy
4. Neurorestoration, special focus on revascularization
5. Noninvasive strategies for revascularization/restoration

GRANT SUPPORT – UNDER REVIEW/PENDING:

Grant No. 1R61HL180353-01 (Russin, Carey, Han)

Dates of Award: 7/1/2025-6/30/2030

Agency: NHLBI

Percent Effort: 10%

Title: Initial Evaluation of a Novel Spinal Cord Revascularization Strategy Prior to Endovascular Aortic Aneurysm Repair

Description: The major goals of this project are to define the safety of a strategy to identify spinal cord vessels originating off Aortic aneurysms and revascularizing them endovascularly or with open bypass prior to treatment of the complex thoracoabdominal aortic aneurysm

Role: PI

Total Direct Costs: 1,969,505.00

GRANT SUPPORT – CURRENT OR COMPLETED:

Grant No. (Bonaguidi)

Dates of Award: 3/1/2023-2/30/2024

Agency: Eli and Edythe Broad Innovation Award

Percent Effort: 5%

Title: Exercise for adult brain regeneration in epilepsy patients

Description: Explore feasibility of enrolling patients with mesial temporal lobe epilepsy in a prospective exercise trial prior to surgical resection with the goal of identifying the impact on cognition, exercise tolerance and neurogenesis.

Role: Co-PI

Total Direct Costs: 125,000

Grant No. 5R03NS113090-02(Russin)
Agency: NIH/NINDS

Dates of Award: 5/1/2019-4/30/2022
Percent Effort: 5%

Title: Elucidation of botulinum neurotoxin A mediated cerebral revascularization graft spasmolysis mechanisms
Description: Describe mechanism of action for botulinum neurotoxin A mediated spasmolysis when treating vascular grafts prior to implantation.

Role: PI

Total Direct Costs: 82,500

Grant No. 1R01NS102213-01A1 (Wang, Lihong)
Agency: NIH/NINDS

Dates of Award: 9/15/2017-5/31/2022
Percent Effort: 5%

Title: Safe, rapid & functional pediatric brain imaging using photoacoustic computed tomography
Description: Development and evaluation of a safe, rapid and functional three-dimensional pediatric neuroimaging modality based on photoacoustic computed tomography.

Role: Co-Investigator

Total Direct Costs: 462,035

Grant No. 5R25NS099008-05 (Mack, William)
Agency: NIH/NINDS

Dates of Award: 07/01/2022-6/30/2023
Percent Effort: 5%

Title: USC Neurosurgery Research Education Training Program

Description: Training for neurosurgery residents and fellows in basic, clinical and translational research

Role: Mentorship team member

Total Direct Costs: Dependent on annual resident complement supported

Grant No. 013966-00001 (Russin)
Agency: Carl Zeiss Meditec, Inc

Dates of Award: 4/15/2021-5/14/2023
Percent Effort: 2%

Title: Assessment of Cerebral Perfusion after Revascularization, a Multicenter, Prospective Trial.

Description: The major goals of this project are to perform a protocol-driven analysis of the flow 800 software's application in revascularization procedures and correlate to clinical outcomes across multiple institutions

Role: PI

Total Direct Costs: 62,356

Grant No. 1R01NS118019-01 (Yan, Lirong)
Agency: NIH/NINDS

Dates of Award: 07/01/2020-04/30/2025
Percent Effort: 5%

Title: Quantitative ASL MR angiography and perfusion imaging for cerebral revascularization

Description: Develop a robust, noninvasive, flexible MRI imaging suite to quantitatively characterize cerebral hemodynamics pre and post-revascularization surgery without exogenous contrast agents.

Role: Co-Investigator

Total Direct Costs: 1,499,940

Grant No. 008903-00001 (Russin)
Agency: Carl Zeiss Meditec, Inc

Dates of Award: 09/27/2017-09/30/2019
Percent Effort: 2%

Title: Relative local changes in cortical blood flow as a predictor of graft patency and revascularization outcomes.

Description: The major goals of this project are to perform a protocol-driven analysis of the flow 800 software's application in revascularization procedures.

Role: PI

Total Direct Costs: 15,714

Grant No. 7R01EB014922-05 (Wang)

Dates of Award: 12/15/2016-11/30/2018

Percent Effort: 5%

Title: Non-Contrast 4-D Dynamic MRA in Arteriovenous Malformation (AVM).

Description: Stevens Neuroimaging and Informatics Institute

Role: Co-Investigator

Total Direct Costs: 24,782

Grant No. N/A

Dates of Award: 11/2013-6/2014

Agency: Barrow Neurological Foundation

Percent Effort: 2%

Title: Computational fluid dynamic retrospective modeling of giant aneurysm.

Description: Using computational fluid dynamics to try and understand aneurysm behavior

Role: Co-Investigator

Total Direct Costs: 10,000

Grant No. (Mack)

Dates of Award: 2011-2013

Agency: Brain Aneurysm Foundation.

Percent Effort: 5%

Title: MRI Permeability and Matrix Metalloproteinase 9 levels: Association with Cerebral Vasospasm following Aneurysmal Subarachnoid Hemorrhage.

Description: Using MRI permeability imaging to attempt to predict clinical vasospasm after aneurysmal SAH

Role: Co-Investigator

Total Direct Costs: 25,000

PATENTS

2025 Patent Pending

Re: Assessing Sensitivity of Brain-To-Scalp Blood Flows in Laser Imaging by Occluding the Temporal Artery CIT File No.: CIT-9274-P Filed: 2/7/2025

INVITED LECTURES, SYMPOSIA, KEYNOTE ADDRESSES

2015	Invited Lecture	Applications for computational fluid dynamics in cerebrovascular neurosurgery. World Brain Mapping Meeting, Los Angeles, CA
2015	Invited Lecture	Bypass strategies for complex cerebral aneurysms. Van Der Muelen Symposium, Los Angeles, CA
2016	Invited Lecture	Neurosurgical applications for flow-through free flaps, Neurosurgery at Jackson Hole, Jackson Hole, WY
2016	Invited Lecture	Cerebrovascular anatomy. Society of Neurological Surgeons Junior Resident Course, San Diego, CA
2016	Invited Lecture	High flow bypass as an acute management strategy for ruptured blister aneurysms. Barrow Symposium, Phoenix, AZ
2016	Invited Lecture	Revascularization using pedicled or flow-through free flaps. Barrow Symposium. Phoenix, AZ
2016	Invited Lecture	Management of cerebral cavernous malformations. Van Der Muelen Symposium. Los Angeles, CA
2017	Invited Lecture	Complex cerebrovascular case presentations. Neurosurgery at Jackson Hole. Jackson Hole, WY
2017	Invited Lecture	Applications of flow-through flaps in moyamoya disease. BNI Symposium. Phoenix, AZ
2017	Invited Lecture	Microsurgical bypass for acute cerebral ischemia. Van Der Muelen Symposium. Los Angeles, CA
2018	Invited Lecture	Microsurgical management of medically resistant epilepsy. Van Der Muelen Symposium. Los Angeles, CA
2018	Invited Lecture	Technical aspects and complication avoidance during bypass surgery. Congress of Neurological Surgeons. Houston, TX
2018	Invited Lecture	Evolving Revascularization. Mayo Bypass Course. Rochester, MN
2018	Invited Lecture	Techniques in cerebral bypass, how do I start? Mayo Bypass Course. Rochester, MN
2018	Invited Lecture	Cerebral revascularization for atherosclerotic disease. SNIS. San Diego, CA
2019	Invited Lecture	Posterior circulation bypass for ischemia. Congress of Neurological Surgeons. San Francisco, CA
2020	Invited Lecture	Revascularization. CV Winter Meeting. Jackson Hole, WY
2021	Invited Lecture	Perfusion as a signal and a solution – The role of cerebral blood flow in the evolution of neuro-diagnostics and therapeutics, Viterbi School of Biomedical Engineering
2022	Invited Lecture	Novel techniques for functional brain imaging, CV Winter Meeting, Jackson Hole, WY
2022	Invited Lecture	Cerebral Aneurysms Community Session, State of Industry – Fluorescence Vascular Techniques. AANS, Philadelphia, PA
2022	Invited Lecture	Limitless Spotlight – USC Quarterly Perioperative Services Townhall. Los Angeles, CA
2023	Invited Lecture	Complex Revascularization Strategies – Lessons Learned. AANS, Los Angeles, CA
2023	Invited Lecture	Microsurgical Techniques. UCSF Transplant Surgery Rounds, San Francisco, CA
2023	Invited Lecture	Spinal Cord Revascularization for Complex TAAA. BIG10 Consortium, Los Angeles CA
2024	Invited Lecture	Neurorevascularization. Congress of Yasargil Microneurosurgery Academy, Istanbul, Turkey
2024	Invited Lecture	Best Case Presentation. LINNC, Paris, France
2024	Invited Lecture	The Role of Cerebral Blood Flow in the Evolution of Neuro-diagnostics and Therapeutics. Keck-Viterbi Enabling Neurotechnologies Retreat, Los Angeles, CA

INVITED GRAND ROUNDS, CME LECTURES

2017	Grand Rounds	Evolving Revascularization, UCSD, San Diego, CA
2018	CME Lecture	Evaluation and treatment of cerebrovascular diseases. Kaweah Delta Cerebrovascular CME Event, Visalia, CA
2021	Grand Rounds	ER Management of neurovascular pathology. Kern Medical ED Grand Rounds, Bakersfield, CA
2023	Graduation Grand Rounds	Department of Neurological Surgery and Neurology, Temple University, Philadelphia, PA
2023	Grand Rounds	Neurovascular Surgery: A Window of Opportunity. Barrow Neurological Institute, Phoenix, AZ
2023	CME Lecture	Spinal Cord Revascularization. USC Gaspar Symposium for Vascular Surgery, Pasadena, CA
2023	Grand Rounds	Neurovascular Surgery: A Window of Opportunity. Department of Neurological Surgery, University of South Florida, Tampa, FL
2023	CME Lecture	Direct surgical access for endovascular treatment of type II endoleak in TAAA. Veith Symposium, New York, NY
2023	CME Lecture	VanDer Muelen Symposium, Los Angeles, CA
2024	CME Lecture	Neurovascular Emergencies, Kaweah Health, Visalia, CA
2024	CME Lecture	Spinal Revascularization in Complex Thoracoabdominal Aortic Aneurysms. Gaspar Symposium, Los Angeles, CA
2025	Grand Rounds	Neurovascular Surgery: A Window of Opportunity. University of Buffalo Department of Neurological Surgery, Buffalo, NY

PUBLICATIONS:

REFEREED JOURNAL ARTICLES:

1. Davidson L, Fishback D, **Russin JJ**, Weiss MH, Yu C, Pagnini PG, Zelman V, Apuzzo ML, Giannotta SL. Postoperative Gamma Knife surgery for benign meningioma of the cranial base. *Neurosurgical Focus*. 23 (4): 2007. PMID.17961043
2. Prestigiacomo CJ, Sabit A, He W, Jetwa P, Gandhi C, **Russin JJ**. Three-dimensional CT angiography versus digital subtraction angiography in the detection of intracranial aneurysms in subarachnoid hemorrhage. *Journal of Neurointerventional Surgery*. 2 (4): 385-9, 2010. PMID 21990653
3. **Russin JJ**, Mack WJ, Carey JN, Minneti M, Giannotta SL. Simulation of high flow extracranial-intracranial bypass using a radial artery graft in a novel fresh tissue model. *Neurosurgery*. 71 (2 Supplement): 315-19 Dec. 2012. PMID 22791034
4. Adamczyk P, Attenello F, Wen G, **Russin JJ**, Sanossian N, Amar AP, Mack WJ. Mechanical Thrombectomy in Acute Stroke: Utilization Variances and Impact of Procedural Volume On Inpatient Mortality. *J Stroke Cerebrovasc Dis*. 22 (8): 1263-9 Nov. 2013. PMID 23017430.
5. Mills JN, Mehta V, **Russin JJ**, Amar AP, Rajamohan A, Mack WJ. Advanced imaging modalities in the detection of cerebral vasospasm. *Neurol Res Int*. 2013. PMID 23476766.
6. Gao F, Shi L, **Russin JJ**, Zeng L, Chang X, He S, Chen TC, Giannotta SL, Weisenberger DJ, Zada G, Mack WJ, Wang K. DNA methylation in the malignant transformation of meningiomas. *PLoS One*. 8 (1): e54114. 2013. PMID 23349797.
7. **Russin JJ**, Attenello FJ, Amar AP, Liu CY, Apuzzo ML, Hsieh PC. Computed Tomography for Clearance of Cervical Spine Injury in the Unevaluable Patient. *World Neurosurgery*. 2013. PMID 23321374
8. Chang X, Shi L, GaoF, **Russin JJ**, Zeng L, He S, Chen TC, Giannotta SL, Weisenberger DJ, Zada G, Wang K, Mack WJ. Genomic and transcriptome analysis revealing an oncogenic functional module in meningiomas. *Neurosurg Focus* 35 (6): E3, Dec 2013. PMID 24289128.

9. Mehta V, **Russin J**, Spirtos A, He S, Adamczyk P, Amar AP, Mack WJ. Matrix Metalloproteinases in Cerebral Vasospasm following Aneurysmal Subarachnoid Hemorrhage. *Neurol Res Int*. April 2013. PMID 23691315.
10. Liu Q, He S, Groysman L, Shaked D, **Russin JJ**, Sotton TC, Cen S, Mack WJ. White matter injury due to experimental chronic cerebral hypoperfusion is associated with C5 deposition. *PLoS One*, 8(12): e84802, Dec, 2013, PMID 24386419.
11. Attenello FJ, Adamczyk P, Wen G, He S, Zhang K, **Russin JJ**, Sanossian N, Amar AP, Mack WJ. Racial and Socioeconomic disparities in access to mechanical revascularization procedures for acute ischemic stroke. *J Stroke Cerebrovasc Dis*. 23 (2):327-34, Feb. 2014. PMID 23680690.
12. Rangel-Castilla L, **Russin JJ**, Zaidi HA, Martinez-Del-Campo E, Park MS, Albuquerque FC, Mc Dougall CG, Nakaji P, Spetzler RF. Contemporary management of spinal AVF's and AVM's: lessons learned from 110 cases. *Neurosurg Focus*. 37(3): E14, Sept, 2014. PMID 25175433.
13. **Russin JJ**, Spetzler RF, Giannotta SL, Meyer FB, Lawton MT, Cohen-Gadol AA. Introduction: Strategies for management and outcomes of arteriovenous malformations. *Neurosurg Focus*. 37 (3): Introduction. Sept, 2014. PMID 25175448
14. Rangel-Castilla L, Kalani MY, Cronk K, Zabramski JM, **Russin JJ**, Spetzler RF. Vertebral artery transposition for revascularization of the posterior circulation: a critical assessment of temporary and permanent complications and outcomes. *J Neurosurg*. 122 (3): 671-7, Mar 2015. PMID 25397367.
15. **Russin JJ**, Rangel-Castilla L, Kalani MY, Spetzler RF. Surgical management, outcomes and recurrence rate of orbital lymphangiomas. *J Clin Neurosci*. 22 (5): 877-82, May, 2015. PMID 25796957
16. Rangel-Castilla L, **Russin JJ**, Britz GW, Spetzler RF. Update on transient cardiac standstill in cerebrovascular surgery. *Neurosurg Rev*. 38 (4): 595-602, Sept, 2015. PMID 25931209.
17. Spetzler RF, McDougal CG, Zabramski JM, Albuquerque FC, Hills NK, **Russin JJ**, Partovi S, Nakaji P, Wallace RC. The Barrow Ruptured Aneurysm Trail: 6-year results. *J Neurosurg*. 123 (3):609-17, Sept, 2015. PMID 26115467.
18. **Russin JJ**, Kramer DR, Thomas D, Hasson D, Liu CY, Amar AP, Mack WJ, Giannotta SL. The importance of peroperative diagnosis of blister aneurysms. *J Clin Neurosci*. 22 (9):1408-12, Sept, 2015. PMID 25960141
19. Rangel-Castilla L, **Russin JJ**, Spetzler RF. Surgical management of skull base tumors. *Rep Prac Oncol Radiother*. 21 (4):325-35, Jul-Aug, 2016. PMID 27330418.
20. Liu C, **Russin JJ**, Heck C, Kawata K, Adiga R, Yen W, Lambert J, Stear B, Law M, Marquez Y, Crino P, Millett D, Langford D. Dysregulation of PINCH signaling in mesial temporal epilepsy. *J Clin Neurosci*. 36:46-52, Feb 2016. PMID 27838154.
21. Attenello FJ, Reid P, Wen T, Cen S, Kim-Tenser M, Sanossian N, **Russin JJ**, Amar A, Giannotta S, Mack WJ, Tenser M. Evaluation of time to aneurysm treatment following subarachnoid hemorrhage: comparison of patients treated with clipping versus coiling. *J Neurointerv Surg*, 8(4):373-7, April 2016, PMID 25765950.
22. Liu Q, Babadjouni R, Radwanski R, Chen H, Patel A, Hodis DM, He S, Baumbacher P, **Russin JJ**, Morgan TE, Sioutas C, Finch CE, Mack WJ. Stroke damage is exacerbated by nano-sized particulate matter in a mouse model. *PLoS One*. 11 (4): e0153376. April, 2016. PMID 27071057.
23. Azadgoli B, Leland HA, Wolfswinkel EM, Bakhsheshian J, **Russin JJ**, Carey JN. Combined Direct and indirect cerebral revascularization using local and flow-through flaps. *J Resonstr Microsurg*. 34(2): 103-107. Feb 2018, PMID 28946153.
24. Rennert RC, Strickland BA, Ravina K, Bakhsheshian J, **Russin JJ**. Efficacy and outcomes of posterior inferior cerebellar artery (PICA) bypass for proximal PICA and vertebral artery-PICA aneurysms: A case series. *Oper Neurosurg (Hagerstown)*. 15(4):395-403, Oct 2018, PMID 29444270.

25. Rennert RC, Strickland BA, Ravina K, Bakhsheshian J, **Russin JJ**. Assessment of hemodynamic changes and hyperperfusion risk after extracranial to intracranial bypass surgery using intraoperative indocyanine green based flow analysis. *World Neurosurg*. 114:352-360, Jun 2018, PMID 29626683.
26. Ravina K, Buchanan IA, Rennert DA, Strickland BA, Carey JN, **Russin JJ**. Occipital artery to posterior cerebral artery bypass using descending branch of the lateral circumflex femoral artery graft for treatment of fusiform, unruptured posterior cerebral artery aneurysm: 3-dimensional operative video. *Oper Neurosurg (Hagerstown)*. 15(5): E50-E51, Nov 2018, PMID 29618068.
27. **Russin JJ**, Montagne A, D'Amore F, he S, Shiroishi MS, *Rennert RC, Depetris J, Zlokovic BV, Mack WJ. Permeability imaging as a predictor of delayed cerebral ischemia after aneurysmal subarachnoid hemorrhage. *J Cereb Blood Flow Metab*. 38(6):973-979, Jun 2018, PMID 29611451. Clinical trial
28. Ravina K, Strickland BA, Rennert RC, Fredrickson V, Bakhsheshian J, Chien M, Mack W, Amar A, **Russin JJ**. Fusiform vertebral artery aneurysms involving the posterior inferior cerebellar artery origin associated with the sole angiographic anterior spinal artery origin: Technical case report and treatment paradigm proposal. *J Neurosurg*, 1:1-7, Oct 2018, PMID 30485231.
29. Ravina K, Rennert RC, Strickland BA, Chien M, Carey JN, **Russin JJ**. Pedicled temporoparietal fascial flap for combined revascularization in adult moyamoya disease. *J Neurosurg*, 1:1-7, Nov 2018, PMID 30497163.
30. Strickland BA, Bakhsheshian J, Rennert RC, Fredrickson VL, Lam J, Amar A, Mack WJ, Carey J, **Russin JJ**. Descending branch of the lateral circumflex femoral artery graft for posterior inferior cerebellar artery revascularization. *Oper Neurosurg*, 130(2): 556-572, Feb 2019, PMID 30125010.
31. Babadjouni R, Wen T, Donoho DA, Buchanan IA, Cen SY, Friedman RA, Amar A, **Russin JJ**, Giannotta SL, Mack WJ, Attenello FJ. Increased hospital surgical volume reduces rate of 30- and 90 day readmission after acoustic neuroma surgery. *Neurosurgery*, 84(3):726-731, Mar 2019, PMID 29889284.
32. Rennert RC, Ravina K, Strickland BA, Bakhsheshian J, Carey J, **Russin JJ**. Radial artery facial flow through free flap for complex cerebral revascularization: technical notes and long term neurologic and radiographic outcomes. *Oper Neurosurg*, 16(4): 424-434, April 2019, PMID 29920593.
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CLINICAL COMMUNICATION: (CASE REPORTS, LETTERS)

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