

Anthony Steven Larson, M.D.

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Curriculum Vitae

Education

- | | |
|-------------------|--|
| 01/2012 – 05/2016 | Bachelor of Science (BS), Biology (Major) and Chemistry (Minor) <ul style="list-style-type: none">• Bethel University, St. Paul, MN• <i>Summa Cum Laude</i> |
| 07/2017 – 07/2022 | Doctor of Medicine (MD) <ul style="list-style-type: none">• University of Minnesota Medical School, Minneapolis, MN |

Certification

- | | |
|---------|-------------------------------|
| 06/2019 | USMLE Step 1: Passed (265) |
| 10/2021 | USMLE Step 2 CK: Passed (257) |
| 11/2022 | USMLE Step 3: Passed (244) |

Honors and Awards

- | | |
|---------|---|
| 09/2021 | Elected to Alpha Omega Alpha Honor Society <ul style="list-style-type: none">• University of Minnesota Medical School, Minneapolis, MN |
| 06/2018 | Honors, First Year of Medical School (Top 25% of Class) <ul style="list-style-type: none">• University of Minnesota Medical School, Minneapolis, MN |

05/2016	Outstanding Service to the Department of Biological Sciences <ul style="list-style-type: none">Bethel University, St. Paul, MN
05/2016	Dean's List <ul style="list-style-type: none">Bethel University, St. Paul, MN
04/2016	Academic All-Conference, Minnesota Intercollegiate Athletic Conference (MIAC) Men's Ice Hockey <ul style="list-style-type: none">Bethel University, St. Paul, MN
12/2015	Dean's List <ul style="list-style-type: none">Bethel University, St. Paul, MN
05/2015	Dean's List <ul style="list-style-type: none">Bethel University, St. Paul, MN
04/2015	Academic All-Conference, MIAC Men's Ice Hockey <ul style="list-style-type: none">Bethel University, St. Paul, MN
04/2015	All-Conference, MIAC Men's Ice Hockey <ul style="list-style-type: none">Bethel University, St. Paul, MN
12/2014	Dean's List <ul style="list-style-type: none">Bethel University, St. Paul, MN
05/2014	Dean's List <ul style="list-style-type: none">Bethel University, St. Paul, MN
04/2014	Academic All-Conference, MIAC Men's Ice Hockey <ul style="list-style-type: none">Bethel University, St. Paul, MN
12/2013	Dean's List <ul style="list-style-type: none">Bethel University, St. Paul, MN
05/2013	Dean's List <ul style="list-style-type: none">Bethel University, St. Paul, MN
04/2013	Academic All-Conference, MIAC Men's Ice Hockey <ul style="list-style-type: none">Bethel University, St. Paul, MN
04/2013	All-Conference, MIAC Men's Ice Hockey <ul style="list-style-type: none">Bethel University, St. Paul, MN

Employment Experience

10/2024 – Current	Freelance Medical Writer <ul style="list-style-type: none">Larson Medical Writing, LLC
10/2024 – Current	Clinical Research Coordinator <ul style="list-style-type: none">Avera Research Institute, Sioux Falls, SD

Anthony S. Larson, M.D.
Last Revised: 29 October 2024

07/2024 – 10/2024	Resident Physician <ul style="list-style-type: none">University of South Dakota Sanford School of Medicine Department of Pathology, Sioux Falls, SD
12/2022 – 07/2024	Medical Research Program Coordinator <ul style="list-style-type: none">Gundersen Medical Foundation, La Crosse, WI
07/2022 – 12/2022	Resident Physician <ul style="list-style-type: none">Transitional Year Program, Gundersen Medical Foundation, La Crosse, WI
03/2022 – 05/2023	Content Writer, 1 st and 2 nd Year Medical School Question Bank <ul style="list-style-type: none">University of Minnesota Medical School
09/2016 – 07/2017	Emergency Room Medical Scribe <ul style="list-style-type: none">Emergency Physicians PA, Minnetonka, MN
01/2016 – 08/2016	Certified Nursing Assistant <ul style="list-style-type: none">University of Minnesota Medical Center, Minneapolis, MN
07/2015 – 01/2016	Certified Nursing Assistant <ul style="list-style-type: none">Presbyterian Homes, Arden Hills, MN
07/2013 – 07/2015	Certified Nursing Assistant <ul style="list-style-type: none">Golden Living Center, Stillwater, MN

Peer-Reviewed Publications

Original Research

1. Benson JC, Shahid A, **Larson A**, Brinjikji W, Nasr D, Saba L, Lanzino G, Savastano LE. Carotid Artery Tortuosity and Internal Carotid Artery Plaque Composition. Clin Neuroradiol. 2023 Jun 7. doi: 10.1007/s00062-023-01302-1. Epub ahead of print. PMID: 37286876.
2. Benson JC, Shahid A, **Larson AS**, Brinjikji W, Nasr D, Saba L, Lanzino G, Savastano LE. Intraplaque hemorrhage on magnetic resonance angiography: How often do signal abnormalities persist on follow-up imaging? Clin Neurol Neurosurg. 2023 Jun;229:107744. doi: 10.1016/j.clineuro.2023.107744. Epub 2023 Apr 25. PMID: 37119658.
3. **Larson AS**, Brinjikji W. Radiculomedullary arterial contributions to the thoracolumbar spinal cord: an angiographic study. J Neurosurg Sci. 2023 Jun;67(3):340-343. doi: 10.23736/S0390-5616.20.05201-7. Epub 2020 Nov 30. PMID: 33252207.
4. **Larson AS**, Klaas JP, Johnson MP, Benson JC, Shlapak D, Lanzino G, Savastano LE, Lehman VT. Vessel wall imaging features of Moyamoya disease in a North American population: patterns of negative remodelling, contrast enhancement, wall thickening, and stenosis. BMC Med Imaging. 2022 Nov 17;22(1):198. doi: 10.1186/s12880-022-00930-2. PMID: 36397005; PMCID: PMC9673330.
5. Nardi V, Benson JC, **Larson AS**, Brinjikji W, Saba L, Meyer FB, Lanzino G, Lerman A, Savastano LE. Carotid artery endarterectomy in patients with symptomatic non-stenotic carotid artery disease. Stroke Vasc Neurol. 2022 Jun;7(3):251-257. doi: 10.1136/svn-2021-000939. Epub 2022 Mar 3. PMID: 35241631; PMCID: PMC9240461.

6. **Larson AS**, Brinjikji W, Kroll NJ, Savastano L, Huston J 3rd, Benson JC. Normalized intraplaque hemorrhage signal on MP-RAGE as a marker for acute ischemic neurological events. *Neuroradiol J*. 2022 Feb;35(1):112-118. doi: 10.1177/19714009211029263. Epub 2021 Jul 5. PMID: 34224247; PMCID: PMC8826295.
7. Nardi V, Benson J, Bois MC, Saba L, **Larson AS**, Özcan I, Ahmad A, Morse DW, Meyer FB, Brinjikji W, Lanzino G, Lerman LO, Savastano LE, Lerman A. Carotid Plaques From Symptomatic Patients With Mild Stenosis Is Associated With Intraplaque Hemorrhage. *Hypertension*. 2022 Jan;79(1):271-282. doi: 10.1161/HYPERTENSIONAHA.121.18128. Epub 2021 Nov 17. PMID: 34878895.
8. Kumar M, **Larson A**, Jabal MS, Rinaldo L, Savastano L, Lanzino G, Meyer F, Lehman V, Klaas J. Comparison of Stroke Risk Factors between Symptomatic and Asymptomatic Patients in a North American Moyamoya Disease Cohort. *Cerebrovasc Dis Extra*. 2022;12(2):72-75. doi: 10.1159/000525098. Epub 2022 May 19. PMID: 35588715; PMCID: PMC9247436.
9. **Larson AS**, Chen JJ, Bhatti MT, Klaas JP, Lanzino G, Huston J 3rd, Brinjikji W. The Frequency of Carotid Intraplaque Hemorrhage on Vessel Wall Imaging in Patients With Retinal Artery Occlusion: A Cross-Sectional Prevalence Study. *J Neuroophthalmol*. 2021 Dec 1;41(4):e572-e577. doi: 10.1097/WNO.0000000000001156. PMID: 33417414.
10. **Larson AS**, Brinjikji W, Savastano L, Rabinstein AA, Saba L, Huston J, Benson JC. Carotid Intraplaque Hemorrhage and Stenosis: At What Stage of Plaque Progression Does Intraplaque Hemorrhage Occur, and When is It Most Likely to Be Associated with Symptoms? *AJNR Am J Neuroradiol*. 2021 Jul;42(7):1285-1290. doi: 10.3174/ajnr.A7133. Epub 2021 Apr 22. PMID: 33888452; PMCID: PMC8324275.
11. **Larson AS**, Savastano L, Klaas J, Lanzino G. Cardiac manifestations in a western moyamoya disease population: a single-center descriptive study and review. *Neurosurg Rev*. 2021 Jun;44(3):1429-1436. doi: 10.1007/s10143-020-01327-x. Epub 2020 Jun 7. PMID: 32507930.
12. Schenk WB, Brinjikji W, **Larson AS**, Nasr DM. Diagnostic Yield of Neck CT Angiography in Young Adults With Anterior Circulation Ischemic Stroke: A Community Based Study. *Neurohospitalist*. 2021 Apr;11(2):119-124. doi: 10.1177/1941874420974542. Epub 2020 Nov 24. PMID: 33791054; PMCID: PMC7958676.
13. **Larson A**, Covington T, Anderson K, Tollefson M, Lanzino G, Brinjikji W. Spinal Neurovascular Malformations in Klippel-Trenaunay Syndrome: A Single Center Study. *Neurosurgery*. 2021 Feb 16;88(3):515-522. doi: 10.1093/neuros/nyaa457. PMID: 33073841.
14. **Larson AS**, Nasr DM, Rizvi A, Alzuabi M, Seyedsaadat SM, Lanzino G, Huston J 3rd, Lehman VT, Savastano LE, Brinjikji W. Embolic Stroke of Undetermined Source: The Association With Carotid Intraplaque Hemorrhage. *JACC Cardiovasc Imaging*. 2021 Feb;14(2):506-508. doi: 10.1016/j.jcmg.2020.08.007. Epub 2020 Sep 30. PMID: 33011125.
15. **Larson A**, Rinaldo L, Chen JJ, Cutsforth-Gregory J, Theiler AR, Brinjikji W. Reductions in bilateral transverse sinus pressure gradients with unilateral transverse venous sinus stenting for idiopathic intracranial hypertension. *J Neurointerv Surg*. 2021 Feb;13(2):187-190. doi: 10.1136/neurintsurg-2020-016170. Epub 2020 Jun 1. PMID: 32482835.
16. **Larson AS**, Benson JC, Brinjikji W, Savastano L, Lanzino G, Huston J 3rd, Nasr D. Variations in the Presence of Carotid Intraplaque Hemorrhage Across Age Categories: What Age Groups Are Most Likely to Benefit From Plaque Imaging? *Front Neurol*. 2020 Dec 14;11:603055. doi: 10.3389/fneur.2020.603055. PMID: 33381079; PMCID: PMC7768076.

17. **Larson AS**, Brinjikji W, Savastano L, Scharf E, Huston J 3rd, Benson JC. Left-sided carotid arteries have a higher prevalence of intraplaque hemorrhage than right-sided: An asymmetric conundrum. *Neuroradiol J*. 2020 Dec;33(6):494-500. doi: 10.1177/1971400920970920. PMID: 33283672; PMCID: PMC7788677.
18. **Larson AS**, Lanzino G, Brinjikji W. Variations of Intracranial Dural Venous Sinus Diameters from Birth to 20 Years of Age: An MRV-Based Study. *AJNR Am J Neuroradiol*. 2020 Dec;41(12):2351-2357. doi: 10.3174/ajnr.A6816. Epub 2020 Oct 22. PMID: 33093136; PMCID: PMC7963243.
19. **Larson A**, Rinaldo L, Lanzino G, Klaas JP. High prevalence of pro-thrombotic conditions in adult patients with moyamoya disease and moyamoya syndrome: a single center study. *Acta Neurochir (Wien)*. 2020 Aug;162(8):1853-1859. doi: 10.1007/s00701-020-04420-8. Epub 2020 May 28. PMID: 32462312.
20. **Larson A**, Rinaldo L, Brinjikji W, Meyer F, Lanzino G. Intracranial Aneurysms in White Patients with Moyamoya Disease: A U.S. Single-Center Case Series and Review. *World Neurosurg*. 2020 Jun;138:e749-e758. doi: 10.1016/j.wneu.2020.03.072. Epub 2020 Mar 19. PMID: 32201292.
21. **Larson AS**, Brinjikji W, Savastano LE, Huston III J, Benson JC. Carotid Intraplaque Hemorrhage Is Associated with Cardiovascular Risk Factors. *Cerebrovasc Dis*. 2020;49(4):355-360. doi: 10.1159/000508733. Epub 2020 Jul 16. PMID: 32674096.
22. Darrow D, Lee-Norris A, **Larson A**, Samadani U, Netoff TI. Discrepancy Between Internal and External Intracranial Pressure Transducers: Quantification of an Old Source of Error in EVDs? *World Neurosurg*. 2020 Jan;133:e18-e25. doi: 10.1016/j.wneu.2019.07.213. Epub 2019 Aug 5. PMID: 31394360.

Case Reports

1. **Larson AS**, Quinn C 4th, Golzarian S, Sarkar R, Jagadeesan B, Grande AW. The foramen ovale "mirage" and how this impacts percutaneous cannulation for treatment of trigeminal neuralgia: a report of two cases. *Acta Neurochir (Wien)*. 2021 Dec;163(12):3337-3341. doi: 10.1007/s00701-021-04971-4. Epub 2021 Aug 21. PMID: 34417667.
2. **Larson A**, Rinaldo L, Brinjikji W, Lanzino G. P1 segment dissection mimicking pre-truncal subarachnoid hemorrhage with spontaneous resolution. *J Neuroradiol*. 2021 Nov;48(6):456-457. doi: 10.1016/j.neurad.2020.05.002. Epub 2020 May 12. PMID: 32430104.
3. **Larson AS**, Mikula AL, Brinjikji W, Lanzino G. Pipeline embolization for recurrent vertebral artery thromboembolic events secondary to a misplaced pedicle screw. *Neurol Sci*. 2021 Apr;42(4):1555-1558. doi: 10.1007/s10072-020-04943-z. Epub 2020 Nov 27. PMID: 33247323.
4. **Larson AS**, Lehman VT. High-Resolution Vessel-Wall Imaging for Analysis of Intracranial Aneurysm Daughter- Sac Vulnerability. *Mayo Clin Proc*. 2021 Mar;96(3):815-816. doi: 10.1016/j.mayocp.2020.11.008. PMID: 33673928.
5. **Larson AS**, Cloft H, Carabenciov ID, Lanzino G. Teaching NeuroImages: The Venous System and Developmental Venous Anomalies: Drivers of Vascular Malformations? *Neurology*. 2021 Feb 9;96(6):e960-e961. doi: 10.1212/WNL.0000000000010815. Epub 2020 Sep 11. PMID: 32917802.
6. **Larson AS**, Rinaldo L, Arnold Fiebelkorn CE, Young NP, Lanzino G. Spontaneous Vertebral Arteriovenous Fistula Mimicking Brachial Radiculoplexopathy. *World Neurosurg*. 2020 Jun;138:309-312. doi: 10.1016/j.wneu.2020.03.085. Epub 2020 Mar 23. PMID: 32217181.
7. **Larson A**, Rinaldo L, Brinjikji W, Klaas J, Lanzino G. Intracranial Vessel Stenosis in a Young Patient with an MYH11 Mutation: A Case Report and Review of 2 Prior Cases. *World Neurosurg*. 2020 May;137:243-246. doi: 10.1016/j.wneu.2020.02.054. Epub 2020 Feb 17. PMID: 32081817.

Reviews

1. **Larson AS**, Brinjikji W, Lekah A, Klaas JP, Lanzino G, Huston J, Saba L, Benson JC. Nonstenotic Carotid Plaques and Embolic Stroke of Undetermined Source: A Multimodality Review. *AJNR Am J Neuroradiol*. 2023 Feb;44(2):118-124. doi: 10.3174/ajnr.A7750. Epub 2022 Dec 22. PMID: 36549844; PMCID: PMC9891333.
2. Benson JC, Kallmes DF, **Larson AS**, Brinjikji W. Radiology-Pathology Correlations of Intracranial Clots: Current Theories, Clinical Applications, and Future Directions. *AJNR Am J Neuroradiol*. 2021 Sep;42(9):1558-1565. doi: 10.3174/ajnr.A7249. Epub 2021 Jul 22. PMID: 34301640; PMCID: PMC8423051.
3. **Larson AS**, Brinjikji W, Krings T, Guerin JB. The cerebrofacial metameric syndromes: An embryological review and proposal of a novel classification scheme. *Interv Neuroradiol*. 2022 Oct;28(5):595-603. doi: 10.1177/15910199211044938. Epub 2021 Oct 19. PMID: 34665049; PMCID: PMC9511621.
4. **Larson AS**, Brinjikji W, Anderson KR, Tollefson M, Michelle Silvera V, Guerin JB. Imaging of benign cervicofacial vascular anomalies and associated syndromes. *Interv Neuroradiol*. 2022 Jun;28(3):364-374. doi: 10.1177/15910199211034989. Epub 2021 Aug 16. PMID: 34397285; PMCID: PMC9185107.
5. **Larson A**, Nardi V, Brinjikji W, Benson J, Lanzino G, Savastano L. Endarterectomy for symptomatic non-stenotic carotids: a systematic review and descriptive analysis. *Stroke Vasc Neurol*. 2022 Feb;7(1):6-12. doi: 10.1136/svn-2021-001122. Epub 2021 Jul 8. PMID: 34244446; PMCID: PMC8899633.
6. **Larson AS**, Mehta T, Grande AW. Neurosurgical management of aneurysms of the vertebrobasilar system: increasing indications for endovascular therapy with a continued role for open microneurosurgery. *Neurosurg Rev*. 2021 Oct;44(5):2469-2476. doi: 10.1007/s10143-020-01460-7. Epub 2021 Jan 6. PMID: 33409762.
7. **Larson AS**, Zuccarello M, Grande AW. Minimally-invasive tubular retraction ports for intracranial neurosurgery: History and future perspectives. *J Clin Neurosci*. 2021 Jul;89:97-102. doi: 10.1016/j.jocn.2021.04.035. Epub 2021 May 6. PMID: 34119302.
8. **Larson AS**, Lehman VT, Savastano LE, Lanzino G, Campeau NG, Welker KM, Klaas JP. Implementation and Rationale for a Unified Clinical and Imaging Protocol for Evaluation and Treatment of Moyamoya Angiopathy: A Single Institutional Experience. *Front Neurol*. 2021 May 17;12:662393. doi: 10.3389/fneur.2021.662393. PMID: 34079514; PMCID: PMC8165224.
9. **Larson AS**, Brinjikji W. Subarachnoid Hemorrhage of Unknown Cause: Distribution and Role of Imaging. *Neuroimaging Clin N Am*. 2021 May;31(2):167-175. doi: 10.1016/j.nic.2021.01.001. Epub 2021 Mar 23. PMID: 33902872.
10. **Larson AS**, Rinaldo L, Brinjikji W, Lanzino G. Location-based treatment of intracranial aneurysms in moyamoya disease: a systematic review and descriptive analysis. *Neurosurg Rev*. 2021 Apr;44(2):1127-1139. doi: 10.1007/s10143-020-01307-1. Epub 2020 May 8. PMID: 32385590.
11. **Larson AS**, Lehman VT, Lanzino G, Brinjikji W. Lack of Baseline Intracranial Aneurysm Wall Enhancement Predicts Future Stability: A Systematic Review and Meta-Analysis of Longitudinal Studies. *AJNR Am J Neuroradiol*. 2020 Sep;41(9):1606-1610. doi: 10.3174/ajnr.A6690. Epub 2020 Aug 20. PMID: 32819901; PMCID: PMC7583099.
12. **Larson AS**, Haines SJ, Pilcher WH, Piva TE, Grande AW. From the Historical Examples of Drs. Osler, Cushing, and Van Wageningen: Lessons on the Importance of Mentorship in Contemporary Neurosurgery.

World Neurosurg. 2020 Aug;140:251-257. doi: 10.1016/j.wneu.2020.05.100. Epub 2020 May 17. PMID: 32434016.

13. **Larson AS**, Savastano L, Kadirvel R, Kallmes DF, Hassan AE, Brinjikji W. Coronavirus Disease 2019 and the Cerebrovascular-Cardiovascular Systems: What Do We Know So Far? *J Am Heart Assoc*. 2020 Jul 7;9(13):e016793. doi: 10.1161/JAHA.120.016793. Epub 2020 May 12. PMID: 32393136; PMCID: PMC7670533.
14. **Larson AS**, Flemming KD, Lanzino G, Brinjikji W. Brain capillary telangiectasias: from normal variants to disease. *Acta Neurochir (Wien)*. 2020 May;162(5):1101-1113. doi: 10.1007/s00701-020-04271-3. Epub 2020 Mar 6. PMID: 32144484.

Invited Reviews, Commentary and Letters to the Editor

1. Chitwood CA, Shih ED, Amili O, **Larson AS**, Ogle BM, Alford PW, Grande AW. Biology and Hemodynamics of Aneurysm Rupture. *Neurosurg Clin N Am*. 2022 Oct;33(4):431-441. doi: 10.1016/j.nec.2022.06.002. Epub 2022 Sep 11. PMID: 36229130.
2. **Larson AS**, Rinaldo L, Klaas JP, Lanzino G, Savastano LE, Contemporary Management of Moyamoya Disease: Part I—Background and Clinical Presentation, *Contemporary Neurosurgery*: April 30, 2020 - Volume 42 - Issue 6 - p 1-3 doi: 10.1097/01.CNE.0000689056.92670.c1
3. **Larson AS**, Johnson DR, Lehman VT, Rinaldo L, Klaas JP, Lanzino G, Savastano LE, Contemporary Management of Moyamoya Disease: Part II—Imaging Features and Grading Systems, *Contemporary Neurosurgery*: May 15, 2020 - Volume 42 - Issue 7 - p 1-8 doi: 10.1097/01.CNE.0000693984.67034.69
4. **Larson AS**, Rinaldo L, Lanzino G, Meyer FB, Savastano LE, Contemporary Management of Moyamoya Disease: Part III—Revascularization Techniques, *Contemporary Neurosurgery*: May 30, 2020 - Volume 42 - Issue 8 - p 1-6 doi: 10.1097/01.CNE.0000694460.05099.b7
5. **Larson AS**, Savastano LE, Rammos S, Brinjikji W, Middle Meningeal Artery Embolization for Chronic Subdural Hematoma: Rationale, Technique, and Results, *Contemporary Neurosurgery*: June 30, 2020 - Volume 42 - Issue 9 - p 1-6 doi: 10.1097/01.CNE.0000695020.96579.55
6. **Larson AS**, Nardi V, Lanzino G, Brinjikji W, Scharf E, Savastano LE, Symptomatic Mild Carotid Artery Stenosis, *Contemporary Neurosurgery*: September 30, 2020 - Volume 42 - Issue 14 - p 1-5 doi: 10.1097/01.CNE.0000723688.52449.d5
7. **Larson A**, Brinjikji W. Commentary: Aneurysm Wall Enhancement Is Associated With Decreased Intracellular IL-10 and Morphological Features of Instability. *Neurosurgery*. 2021 Sep 15;89(4):E213-E214. doi: 10.1093/neuros/nyab265. PMID: 34318882.
8. **Larson AS**, Rinaldo L, Brinjikji W, Klaas JP. Letter to the Editor. Cerebral arteriopathy and the ACTA2 mutation. *J Neurosurg Pediatr*. 2021 May 14:1-2. doi: 10.3171/2021.2.PEDS2182. Epub ahead of print. PMID: 33990081.

Editorials

1. **Larson AS**, Steevens A, Grande AW. Continued Hope for Stem Cells in Ischemic Stroke: Review and Future Perspectives, *Congress Quarterly*: Spring 2020.

Oral Presentations

1. **Larson AS**, Haines SJ, Pilcher WH, Piva TE, Grande AW. From the Historical Examples of Drs. Osler, Cushing and Van Wagenen: Lessons on the Importance of Mentorship in Contemporary Neurosurgery. *American Association of Neurological Surgeons Annual Meeting*. April 2020 (Accepted, Conference canceled due to COVID-19).
2. **Larson AS**, Chen JJ, Bhatti MT, Klaas JP, Lanzino G, Huston III J, Brinjikji W. The Frequency of Carotid Intraplaque Hemorrhage on Vessel Wall Imaging in Patients with Retinal Artery Occlusion: A Cross-Sectional Prevalence Study. *North American Neuro-Ophthalmology Society Annual Meeting*. January 2021.

Poster Presentations

1. **Larson AS**, Savastano LE, Klaas JP, Lanzino G. Cardiac manifestations in a western moyamoya disease population: a single-center descriptive study and review. *Congress of Neurological Surgeons 2020 Annual Meeting* (Virtual)
2. **Larson AS**, Lanzino G, Brinjikji W. Variations of Intracranial Dural Venous Sinus Diameters from Birth to Age 20: An MRV-based Study. *Congress of Neurological Surgeons 2020 Annual Meeting* (Virtual)
3. **Larson AS**, Benson JC, Brinjikji W. Cardiovascular Risk Factors are Associated with Carotid Intraplaque Hemorrhage. *Society for Neurointerventional Surgery Annual Meeting*. August 2020 (Virtual)
4. **Larson AS**, Benson JC, Brinjikji W. Carotid Intraplaque Hemorrhage is Independent of the Degree of Carotid Artery Stenosis and is More Prevalent in Symptomatic Versus Asymptomatic Patients With Less than 70% Stenosis: Implications for the Utility of Carotid Plaque Imaging. *Society for Neurointerventional Surgery Annual Meeting*. August 2020 (Virtual)
5. **Larson AS**, Benson JC, Brinjikji W. Higher Prevalence of Intraplaque Hemorrhage in Left Carotid Arteries than Right. *Society for Neurointerventional Surgery Annual Meeting*. August 2020 (Virtual)
6. **Larson AS**, Lehman VT, Brinjikji W. Systematic Review and Meta-Analysis of Vessel Wall Imaging of Intracranial Aneurysms: A Second Look. *Society for Neurointerventional Surgery Annual Meeting*. August 2020 (Virtual)
7. **Larson AS**, Rinaldo L, Arnold Fiebelkorn CE, Young NP, Lanzino G. Spontaneous Vertebral Arteriovenous Fistula Mimicking Brachial Radiculo-plexopathy: Case Report. *Society for Neurointerventional Surgery Annual Meeting*. August 2020 (Virtual)
8. **Larson AS**, Mehta T, Grande AW. Use of the Pipeline Embolization Device for Treatment of Atypical Facial Pain Caused by a Cavernous Sinus Aneurysm: A Case Report. *Society for Neurointerventional Surgery Annual Meeting*. August 2020 (Virtual)
9. **Larson AS**, Rinaldo L, Brinjikji W, Klaas JP, Lanzino G. Moyamoya-like Intracranial Vessel Stenosis in a Patient with an MYH11 Mutation: A Case Report and Review of Two Prior Cases. *American Association of Neurological Surgeons Annual Meeting*. April 2020
10. **Larson AS**, Rinaldo L, Brinjikji W, Meyer F, Lanzino G. Treatment of Intracranial Aneurysms Associated with Moyamoya Disease: A Midwestern USA Single Center Case Series. *American Association of Neurological Surgeons Annual Meeting*. April 2020
11. **Larson AS**, Grande AW. Dr. John M. Tew and his Contributions to the Neurosurgical Treatment of Trigeminal Neuralgia. *American Association of Neurological Surgeons Annual Meeting*. April 2020

12. **Larson AS**, Tu A. Ganglioglioma of the Temporal Lobe in a Patient with Neurofibromatosis Type-1: A Case Report and Review of the Literature. *American Association of Neurological Surgeons Annual Meeting*. April 2019

Grants Awarded

- 05/2018 – 09/2018
- University of Minnesota Foundation Grant
- “*Non-hematopoietic Umbilical Cord Blood Stem Cells and their Effect on the Peripheral Immune Response to Stroke in the Ischemia-Reperfusion Model in the Rodent*”
 - Grant focus: Ischemic stroke
 - Grant amount: \$2,000
 - Principle Investigators: Walter Low, PhD and Andrew Grande, MD
 - Student Investigator: **Anthony S. Larson**

Professional Memberships

- 09/2021 – Current
- Alpha Omega Alpha Honor Medical Society
- Senior electee, University of Minnesota Medical School Chapter

Leadership Experiences

- 08/2019 – 09/2020
- American Association of Neurological Surgeons
- Vice President, Medical Student Chapter
 - University of Minnesota Medical School, Minneapolis, MN
- 08/2018 – 09/2019
- American Association of Neurological Surgeons
- President, Medical Student Chapter
 - University of Minnesota Medical School, Minneapolis, MN
- 10/2014 – 03/2016
- Team Captain, Men’s Varsity Ice Hockey Team
- Bethel University, St. Paul, MN
- 08/2015 – 05/2016
- Sigma Zeta National Science and Mathematics Honor Society
- Student President, Beta Iota Chapter
 - Bethel University, St. Paul, MN

Volunteer Experiences

- 04/2023 – 07/2023
- First Free Church, Onalaska, WI
- Volunteer, Life Safety Team
 - Approximately 4 hours/week
- 06/2016
- Praying Pelican Missions
- Medical Mission Volunteer, Corazol, Belize
 - 1 week in length
- 07/2012
- Hockey Ministries International
- Volunteer Hockey Coach

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- Soldotna, AK annual camp
- 1 week in length

06/2012

Hockey Ministries International

- Volunteer Hockey Coach
- St. Louis, MO annual camp
- 1 week in length

Teaching and Mentoring Experiences

10/2019 – 05/2022

Student National Medical Association

- University of Minnesota Chapter, Minneapolis, MN
- Volunteer pre-medical student mentor

06/2014 – 06/2016

Minnesota Literacy Council

- Volunteer teacher, English as a second language
- 2 hours/week

08/2014 – 05/2016

Introduction to Molecular and Cellular Biology Course

- Bethel University, St. Paul, MN
- Teaching assistant
- 2 hours/week

08/2014 – 05/2016

Human Physiology Course

- Bethel University, St. Paul, MN
- Teaching assistant
- 2 hours/week

08/2014 – 05/2016

Human Pathophysiology Course

- Bethel University, St. Paul, MN
- Teaching assistant
- 2 hours/week

08/2015 – 12/2015

Human Endocrinology Course

- Bethel University, St. Paul, MN
- Teaching assistant
- 2 hours/week