

# CURRICULUM VITAE

## **Lily E. Johnston, MD, MPH**

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### Summary of Expertise

Lily Johnston, MD, MPH is board-certified in Vascular as well as General Surgery with 4 years of experience operating on adult patients in Minnesota and California. She specializes in operating on blood vessels in the neck and body including aortic and other aneurysms; aortic dissections; peripheral arterial disease in the arms and legs; carotid artery and cerebrovascular disease; renal and mesenteric vascular disease; venous or vein disease; hemodialysis access; access for spine surgery; vascular trauma or injury, and assistance with tumor resection when blood vessels are involved.

Dr. Johnston received her BA (summa cum laude) from Princeton University (Princeton, NJ) where she was inducted into Phi Beta Kappa followed by her MD from UC San Diego (La Jolla, CA) where she received an award for Academic Excellence. After a residency in General Surgery at the University of Virginia (Charlottesville, VA), she completed a Vascular Surgery Fellowship at the Mayo Clinic (Rochester, MN). She also received a Master of Public Health at the Johns Hopkins University Bloomberg School of Public Health (Baltimore, MD).

Dr. Johnston has been awarded prizes for academic achievement at multiple institutions. She serves on the Quality Measures Committee and the Coding Committee for the Society for Vascular Surgery, the predominant vascular surgery specialty society based in Illinois. She has also served in a leadership position at the American College of Surgeons. She prides herself on her ability to communicate effortlessly with patients and providers about complex medical issues in easy-to-understand terms. She currently cares for patients in several area hospitals in the greater Sacramento, CA area.

### Hospital Appointments

Roseville Medical Center, Roseville CA <b>Vascular Surgeon</b>	9/2021 – present
Sacramento Medical Center, Sacramento CA <b>Vascular Surgeon</b>	9/2021 – present
South Sacramento Medical Center, Sacramento CA <b>Vascular Surgeon</b>	9/2021 – present

### Employment

THE PERMANENTE MEDICAL GROUP, Sacramento CA <b>Vascular Surgeon</b>	9/2021 – present
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UNIVERSITY OF CALIFORNIA, SAN DIEGO, DEPARTMENT OF SURGERY, La Jolla CA <b>Research Assistant</b>	2010 – 2012
US GOVERNMENT, Washington DC <b>Science &amp; Technology Analyst</b>	9/2005 – 8/2008
PRINCETON UNIVERSITY, DEPARTMENT OF MOLECULAR BIOLOGY, Princeton NJ <b>Research Assistant</b>	2004 – 2005
FRED HUTCHINSON CANCER RESEARCH CENTER, Seattle WA <b>Research Assistant</b>	2002 – 2003

### Postdoctoral Training

MAYO CLINIC, Rochester MN <b>Fellowship in Vascular Surgeon</b>	2019 – 2021
UNIVERSITY OF VIRGINIA HEALTH SYSTEM, Charlottesville VA <b>Residency in General Surgery</b>	2012 – 2019

### Education

UNIVERSITY OF CALIFORNIA, SAN DIEGO, La Jolla CA <b>MD</b>	2008 – 2012
THE JOHNS HOPKINS UNIVERSITY BLOOMBERG SCHOOL OF PUBLIC HEALTH, Baltimore MD <b>MPH</b>	2014 – 2015
PRINCETON UNIVERSITY, Princeton NJ <b>BA, summa cum laude</b>	2001 – 2005

### Major Leadership Positions

MAYO CLINIC, Rochester MN <b>Administrative Fellow, Vascular Surgery</b>	3/2020 – 9/2020
UNIVERSITY OF VIRGINIA, DEPARTMENT OF SURGERY, Charlottesville VA <b>Administrative Chief Resident</b>	2019

### Major Committee Service

SOCIETY FOR VASCULAR SURGERY, Rosemont IL <b>Member, Coding Committee</b>	2023 - present
SOCIETY FOR VASCULAR SURGERY, Rosemont IL <b>Member, Quality Measures Committee</b>	2021 - present
UNIVERSITY OF VIRGINIA MEDICAL CENTER, Charlottesville VA <b>Member, Patient Safety Committee</b>	2015 – 2019
AMERICAN COLLEGE OF SURGEONS, Charlottesville VA <b>RAS representative, Vascular Surgery Advisory Council</b>	2015 – 2018

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## Volunteer Positions

WOMANSPACE, Trenton NJ <b>Volunteer</b>	2002– 2005
UNIVERSITY OF CALIFORNIA, SAN DIEGO, La Jolla CA <b>Peer Tutoring</b>	2002– 2005

## Licenses and Certifications

DRUG ENFORCEMENT ADMINISTRATION <b>DEA License - Active</b>	Expires 12/23
CALIFORNIA <b>Medical License</b>	Expires 5/2025
MINNESOTA <b>Medical License</b>	Expires 4/2024
VIRGINIA <b>Medical License</b>	Expires 4/2026
AMERICAN BOARD OF SURGERY – VASCULAR SURGERY <b>Diplomate</b>	Expires 1/2024
AMERICAN BOARD OF SURGERY – SURGERY <b>Diplomate</b>	Expires 1/2024

## Professional Societies

SOCIETY FOR VASCULAR SURGERY	2015 - present
VASCULAR AND ENDOVASCULAR SURGICAL SOCIETY	2019 - present
SURGICAL OUTCOMES CLUB	2015 - present
ASSOCIATION OF WOMEN SURGEONS	2015 - present
AMERICAN COLLEGE OF SURGEONS	2010 - present
AMERICAN MEDICAL ASSOCIATION	2010 - 2019
SOCIETY OF THORACIC SURGEONS	2017 - 2019
SOCIETY FOR NEUROSCIENCE	2005 - 2008

## Honors and Awards

UNIVERSITY OF VIRGINIA, DEPARTMENT OF SURGERY, Charlottesville VA <b>Hugh Shepherd Warren Memorial Award</b>	2019
UNIVERSITY OF VIRGINIA, DEPARTMENT OF SURGERY, Charlottesville VA <b>Academic Achievement Award</b>	2017
SOCIETY OF THORACIC SURGEONS' 53RD ANNUAL MEETING, Houston TX <b>Best Scientific Poster in Critical Care</b>	2017

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SOCIETY FOR VASCULAR SURGERY, Rosemont IL <b>Scholarship Award</b>	2016
UC SAN DIEGO, San Diego CA <b>Merck Award for Academic Excellence</b>	2012
PHI BETA KAPPA, Washington DC <b>Inductee</b>	2005
SIGMA XI, THE SCIENTIFIC RESEARCH HONOR SOCIETY, Research Triangle Park NC <b>Inductee</b>	2005
PRINCETON UNIVERSITY, Department of Psychology, Princeton NJ <b>Howard Crosby Warren Senior Prize</b>	2005
PRINCETON UNIVERSITY, Department of Psychology, Princeton NJ <b>Howard Crosby Warren Junior Prize</b>	2004
PRINCETON UNIVERSITY, Princeton NJ <b>Shapiro Award for Academic Excellence</b>	2004

## Teaching

### **Medical Students**

UNIVERSITY OF VIRGINIA, Charlottesville VA General Surgery Clerkship and Sub-Internship	2012 - 2019
UNIVERSITY OF CALIFORNIA SAN DIEGO, La Jolla CA Anatomy Teaching Assistant	2012

### **General Surgery & Vascular Surgery Interns and Residents**

MAYO CLINIC, Rochester MN General Surgery & Vascular Surgery Residency Programs	2019 – 2021
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### **Pre-Medical Students**

UNIVERSITY OF VIRGINIA, Charlottesville VA Mr. Issac Lee - Direct supervision of undergraduate thesis	2015 – 2016
JOHNS HOPKINS UNIVERSITY, Baltimore MD Dr. Joonho Lee – Premedical advising & coaching	2014 – 2015
UNIVERSITYLINK MEDICAL PROGRAM, La Jolla CA Lecturer	2009

## Presentations

1. Midwestern Vascular Surgical Society 44th Annual Meeting, Virtual <b>Frailty Remains Highly Correlated with Mortality after EVAR in Octogenarians</b>	2020
2. Audible Bleeding Podcast <b>How I Do It—Iliac Branch Endoprosthesis</b>	2020
3. University of Virginia, Department of Surgery, Charlottesville VA <b>Often Wrong, Never in Doubt—Understanding and Improving Surgical Decision Making</b>	2019

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4. Society of Thoracic Surgeons 53rd Annual Meeting, Houston TX 2017  
**Good at One, or Good at All? Correlation of Outcomes Between Coronary Artery Bypass Grafting and Valve Surgery Among Centers**
5. Society of Thoracic Surgeons 53rd Annual Meeting, Houston TX 2017  
**Early Glycemic Variability Is Associated with Adverse Outcomes in Normoglycemic Patients Following Cardiac Surgery**
6. Southern Thoracic Surgical Association 63rd Annual Meeting, Naples FL 2016  
**Contemporary Outcomes for Low-risk Surgical Aortic Valve Replacement: A Benchmark for Evaluating Transcatheter Aortic Valve Technology**
7. Southern Thoracic Surgical Association 63rd Annual Meeting, Naples FL 2016  
**Concomitant Atrial Fibrillation Ablation Remains Underutilized Despite No Additive Risk**
8. Eastern Vascular Society 31st Annual Meeting, Savannah GA 2016  
**Surgeon, Not Institution, Case Volume is Associated with Limb Outcomes After Lower Extremity Bypass in the Vascular Quality Initiative**
9. The International Society for Heart and Lung Transplantation 36th Annual Meeting, Washington DC 2016  
**Equivalent Mortality but Higher Morbidity in Patients Receiving Temporary Mechanical Support Prior to Permanent LVAD Implantation**
10. American Association for Thoracic Surgery 96th Annual Meeting, Baltimore MD 2016  
**Goal-Directed Resuscitation Following Cardiac Surgery Reduces Acute Kidney Injury: A Quality Initiative Pre-Post Analysis**
11. Society for Clinical Vascular Surgery 44th Annual Symposium, Las Vegas NV 2016  
**Privately Insured Patients Are Younger, But Have Similar Morbidity and Mortality After Open AAA Repair Compared to Medicare Patients**
12. Southern Association for Vascular Surgery 2016 Annual Meeting, Cancun MX 2016  
**Comparing Vascular Quality Initiative and National Surgical Quality Improvement Program Populations & Outcomes in Open Infrainguinal Bypass**
13. Society of Thoracic Surgeons 52nd Annual Meeting, Phoenix AZ 2016  
**Postoperative Hypoglycemia Is Associated with Worse Outcomes After Cardiac Surgery**
14. 11th Annual Academic Surgical Congress, Boston, MA 2016  
**Creating Confusion: Publicly Reported Surgeon Ranking Systems are Inconsistent**
15. 11th Annual Academic Surgical Congress, Boston, MA 2016  
**Similar Morbidity & Mortality After EVAR in Privately Insured Compared to Medicare Patients**
16. Virginias Vascular Society Annual Meeting 2014  
**Use of Antiplatelet Agents in Patients Receiving Lower Extremity Endovascular Interventions: A Regional Review of Compliance and Outcomes**
17. Society for Clinical Vascular Surgery 42nd Annual Symposium, Carlsbad CA 2014  
**Use of Antiplatelet Agents in Patients Receiving Lower Extremity Endovascular Interventions: A Regional Review of Compliance and Outcomes**
18. Society for Neuroscience Annual Meeting, Washington DC 2005  
**Diolistic labeling of cerebellar neurons reveals interspecies conservation of Purkinje cell axon diameter**

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## Publications

1. Cirillo-Penn NC, Zheng X, Mao J, **Johnston LE**, D'Oria M, Scali S, Goodney PP, DeMartino R; VQI and VISION. "Long Term Mortality and Reintervention Following Repair of Ruptured Abdominal Aortic Aneurysms using VQI Matched Medicare Claims." *Ann Surg.* 2023 Apr 14. doi: 10.1097/SLA.0000000000005876. PMID: 37057613.
2. **Johnston LE**, Thiele RH, Hawkins RB, Downs EA, Jaeger JM, Brooks C, Ghanta RK, Ailawadi G, Kron IL, Isbell JM; Virginia Interdisciplinary Cardiothoracic Outcomes Research Center. "Goal-directed resuscitation following cardiac surgery reduces acute kidney injury: A quality initiative pre-post analysis." *J Thorac Cardiovasc Surg.* 2020;159(5):1868-1877.e1. doi:10.1016/j.jtcvs.2019.03.135. PMID: 31272751
3. Martin AN, Wilkins LR, Das D, **Johnston LE**, Bauer TW, Adams RB, Zaydfudim VM. "Efficacy of Radiofrequency Ablation versus Transarterial Chemoembolization for Patients with Solitary Hepatocellular Carcinoma  $\leq 3$  cm." *Am Surg.* 2019 Feb 1;85(2):150-155. PMID: 30819290.
4. Hassinger TE, Mehaffey JH, **Johnston LE**, Hawkins RB, Schirmer BD, Hallowell PT. "Roux-en Y gastric bypass is safe in elderly patients: a propensity-score matched analysis." *Surg Obes Relat Dis.* 2018 Aug;14(8):1133-1138. doi:10.1016/j.soard.2018.03.032. Epub 2018 Apr 17. PMID: 29891414
5. **Johnston LE**, Downs EA, Hawkins R, Quader M, Speir A, Rich J, Yarboro L, Ailawadi G. "Good at One or Good at All? Variability of Coronary and Valve Operation Outcomes Within Centers." *Ann Thorac Surg.* 2018 Jun;105(6):1678-1683. doi: 10.1016/j.athoracsur.2017.12.038. Epub 2018 Jan 31. PMID: 29382508.
6. Charles EJ, Napoli NJ, **Johnston LE**, Foster CA, Goode DA, Parker TB, Sharp EA, Barnes L, Young JS. "Outcomes after Falls Continue to Worsen Despite Trauma and Geriatric Care Advancements." *Am Surg.* 2018 Mar 1;84(3):392-397. PMID: 29559054.
7. Hu Y, **Johnston LE**, Shami VM, Bauer TW, Adams RB, Stukenborg GJ, Zaydfudim VM. "Comparative Effectiveness of Resection vs Surveillance for Pancreatic Branch Duct Intraductal Papillary Mucinous Neoplasms With Worrisome Features." *JAMA Surg.* 2018 Mar 1;153(3):225-232. doi: 10.1001/jamasurg.2017.4587. PMID: 29167899
8. Moses DA, **Johnston LE**, Tracci MC, Robinson WP 3rd, Cherry KJ, Kern JA, Upchurch G Jr. "Estimating risk of adverse cardiac event after vascular surgery using currently available online calculators." *J Vasc Surg.* 2018 Jan;67(1):272-278. doi: 10.1016/j.jvs.2017.06.105. Epub 2017 Oct 21. PMID: 29066242.
9. Mullen MG, Hawkins RB, **Johnston LE**, Shah PM, Hedrick TL, Turrentine FE, Friel, CM. "Open surgical incisions after colorectal surgery improve quality metrics, but do patients benefit?" *Dis Colon Rectum.* 2018 May;61(5):622-628. doi: 10.1097/DCR.0000000000001049. PMID: 29578920
10. **Johnston LE**, Downs EA, Hawkins RB, Quader MA, Speir AM, Rich JB, Ghanta RK, Yarboro LT, Ailawadi G. "Outcomes for Low-Risk Surgical Aortic Valve Replacement: A Benchmark for Aortic Valve Technology." *Ann Thorac Surg.* 2017 Jun 11. pii: S0003-4975(17)30509-X. doi: 10.1016/j.athoracsur.2017.03.053. PMID: 28610884.
11. Hawkins RB, Mehaffey JH, Downs EA, **Johnston LE**, Yarboro LT, Fonner CE, Speir AM, Rich JB, Quader MA, Ailawadi G, Ghanta RK. "Regional Practice Patterns and Outcomes of Surgery for Acute Type A Aortic Dissection." *Ann Thorac Surg.* 2017 May 18. pii: S0003-4975(17)30412-5. doi: 10.1016/j.athoracsur.2017.02.086. PMID: 28599962.
12. Charles EJ, **Johnston LE**, Herbert MA, Mehaffey JH, Yount KW, Likosky DS, Theurer PF, Fonner CE, Rich JB, Speir AM, Ailawadi G, Prager RL, Kron IL; "Investigators for the Virginia Cardiac Services Quality Initiative and the Michigan Society of Thoracic and Cardiovascular Surgeons Quality Collaborative. Impact of Medicaid Expansion on Cardiac Surgery Volume and Outcomes." *Ann Thorac Surg.* 2017 May 26. pii: S0003-4975(17)30552-0. doi:10.1016/j.athoracsur.2017.03.079. PMID: 28552372.

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13. Mehaffey JH, **Johnston LE**, Hawkins RB, Charles EJ, Yarboro L, Kern JA, Ailawadi G, Kron IL, Ghanta RK. "Methylene Blue for Vasoplegic Syndrome After Cardiac Operation: Early Administration Improves Survival." *Ann Thorac Surg*. 2017 Jul;104(1):36-41. doi: 10.1016/j.athoracsur.2017.02.057. Epub 2017 May 24. PMID: 28551045; PMCID: PMC5523819.
14. Hawkins RB, Downs EA, **Johnston LE**, Mehaffey JH, Fonner CE, Ghanta RK, Speir AM, Rich JB, Quader MA, Yarboro LT, Ailawadi G; "Investigators for the Virginia Cardiac Services Quality Initiative. Impact of Transcatheter Technology on Surgical Aortic Valve Replacement Volume, Outcomes, and Cost." *Ann Thorac Surg*. 2017 Jun;103(6):1815-1823. doi: 10.1016/j.athoracsur.2017.02.039. Epub 2017 Apr 24. PMID: 28450137.
15. **Johnston LE**, Tracci MC, Cherry KJ, Upchurch GR, Robinson, WP. "Surgeon, Not Institution, Case Volume is Associated with Limb Outcomes After Lower Extremity Bypass in the Vascular Quality Initiative." *J Vasc Surg*. 2017 May 27. pii: S0741-5214(17)31099-6. doi: 10.1016/j.jvs.2017.03.434. PMID: 28559173
16. Mehaffey, JH, Schubert, SA., Gelvin, MG, Charles, EJ, Hawkins, RB, **Johnston, LE**, Ailawadi, G., Kron, IL, Yarboro, LT. "A New Intraoperative Protocol for Reducing Perioperative Transfusions in Cardiac Surgery." *Ann Thorac Surg*. 2017 Jul;104(1):176-181. doi: 10.1016/j.athoracsur.2016.10.032. Epub 2017 Jan 25. PMID: 28131428
17. Shah, P.M., **Johnston, L.**, Sarosiek, B., Harrigan, A., Friel, C.M., Thiele, R.H., Hedrick, T.L. "Reducing Readmissions while Shortening Length of Stay: The Positive Impact of an Enhanced Recovery Protocol in Colorectal Surgery" (2017) *Diseases of the Colon and Rectum*, 60 (2), pp. 219-227. PMID: 28059919
18. **Johnston LE**, Kirby JL, Downs EA, LaPar DJ, Ghanta RK, Ailawadi G, Kozower BD, Kron IL, McCall AL, Isbell JM; Virginia Interdisciplinary Cardiothoracic Outcomes Research (VICTOR) Center. "Postoperative Hypoglycemia Is Associated With Worse Outcomes After Cardiac Operations." *Ann Thorac Surg*. 2016 Aug 25. pii: S0003-4975(16)30722-6. doi: 10.1016/j.athoracsur.2016.05.121. PMID: 27570164
19. **Johnston LE**, Robinson WP, Tracci MC, Kern JA, Cherry KJ, Kron IL, Upchurch GR Jr. "Vascular Quality Initiative and National Surgical Quality Improvement Program registries capture different populations and outcomes in open infrainguinal bypass." *J Vasc Surg*. 2016 Sep;64(3):629-37. doi: 10.1016/j.jvs.2016.03.455. Epub 2016 Jun 30. PMID: 27374064
20. Stewart, B.T., Gyedu, A., Giannou, C., Mishra, B., Rich, N., Wren, S.M., Mock, C., Kushner, A.L., Stewart, B.T., Gyedu, A., Alexander, P., Amponsah-Manu, F., Dardik, A., Darko, N.-D., Elster, E., Giannou, C., Harris, M.J., **Johnston, L.**, Junkins, S., Kokuro, C., Kuwayama, D., Labi-Addo, W., Mishra, B., Morna, M., Oppong-Nketia, V., Orgoi, S., Quiroga, E., Remick, K., Tai, N., Veller, M., Wren, S.M., Yangi-Angate, H., Rich, N., Mock, C., Kushner, A.L. "Consensus recommendations for essential vascular care in low- and middle-income countries (2016)" *Journal of Vascular Surgery*, 64 (6), pp. 1770-1779.e1.
21. **Johnston LE**, Upchurch GR Jr. "High-Risk Patients in the Evolving Landscape of Carotid Revascularization." *JAMA Surg*. 2016 Jun 29. doi: 10.1001/jamasurg.2016.1505. PMID: 27367826
22. **Johnston LE**, Stewart BT, Yangni-Angate H, et al. "Peripheral Arterial Disease in Sub-Saharan Africa: A Review." *JAMA Surg*. April 2016. doi:10.1001/jamasurg.2016.0446. PMID: 27050676
23. Downs EA, **Johnston LE**, LaPar DJ, et al. "Minimally Invasive Mitral Valve Surgery Provides Excellent Outcomes Without Increased Cost: A Multi-Institutional Analysis." *The Annals of Thoracic Surgery*. March 2016. doi:10.1016/j.athoracsur.2016.01.084. PMID: 27041453
24. **Johnston LE**, Grimm JC, Magruder JT, Shah AS. "Development of a Transplantation Risk Index in Patients With Mechanical Circulatory Support: A Decision Support Tool." *JACC Heart Fail*. 2016;4(4):277-286. doi:10.1016/j.jchf.2015.11.009. PMID: 26874393
25. **Johnston LE**, Tran Cao HS, Chang DC, Bouvet M. "Sociodemographic Predictors of Survival in Differentiated Thyroid Cancer: Results from the SEER Database." *ISRN Endocrinol*. 2012;2012:384707. doi:10.5402/2012/384707. PMID: 22957267

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26. Tran Cao HS, **Johnston LE**, Chang DC, Bouvet M. "A critical analysis of the American Joint Committee on Cancer (AJCC) staging system for differentiated thyroid carcinoma in young patients on the basis of the Surveillance, Epidemiology, and End Results (SEER) registry." *Surgery*. 2012;152(2):145-151. doi:10.1016/j.surg.2012.02.015. PMID: 22503316
27. Cheng HH, Anderson MM, Hankenson FC, **Johnston L**, Kotwaliwale CV, Overbaugh J. "Envelope determinants for dual-receptor specificity in feline leukemia virus subgroup A and T variants." 2006;80(4):1619-1628. doi:10.1128/JVI.80.4.1619-1628.2006. PMID: 16439518

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