

Stanford



Shipra Arya

Professor of Surgery (Vascular Surgery)

Surgery - Vascular Surgery

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Bio

BIO

Shipra Arya, MD SM FACS is a Professor of Surgery at the Stanford University School of Medicine and section chief of vascular surgery at VA Palo Alto Healthcare System. She has a Master's degree in epidemiology from the Harvard School of Public Health with focus on research methodology and cardiovascular epidemiology. She completed her General Surgery Residency at Creighton University Medical Center followed by a Vascular Surgery Fellowship at University of Michigan. She has been funded by American Heart Association (AHA), NIH/NIA GEMSSTAR grant, VA Palo Alto Center for Innovation and Implementation (Ci2i), and is currently funded by VA HSR&D for a multicenter stepped wedge cluster randomized clinical trial called "PATient-centered mUltidisciplinary Care for vEterans Undergoing Surgery (PAUSE) trial". Her current work focuses on streamlining frailty evaluation, as well as implementation of patient and system level interventions to improve surgical quality and to provide high-value and patient centered care.

She has multiple administrative roles in surgical quality improvement as Director of Surgical Quality at VAPAHCS; Center director for Stanford University in the Vascular Quality Initiative (VQI); and the Associate Medical Director of the Northern California region for VQI, which is the national registry database and patient safety organization for Society for Vascular Surgery (SVS). Her involvement in SVS VQI also extends to being a member of the steering committee of the Vascular Implant Surveillance and Interventional Outcomes Network (VISION) to improve the quality, safety and effectiveness of vascular care. She also serves as the President of the Surgical Outcomes Club, a national organization of surgical health services researchers, and chairs multiple national committees: VA surgeons committee for the SVS and Diversity and Inclusion Committee for the Association of VA surgeons.

CLINICAL FOCUS

- Vascular Surgery
- Peripheral Arterial Disease
- Aortic Aneurysms
- Carotid artery disease

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Surgery - Vascular Surgery

- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Director of Quality, VA Palo Alto Healthcare System, (2020- present)
- Section Chief- Vascular Surgery, VA Palo Alto Healthcare System, (2018- present)

PROFESSIONAL EDUCATION

- Fellowship: University of Michigan (2013) MI
- Board Certification: Vascular Surgery, American Board of Surgery (2014)
- Board Certification: General Surgery, American Board of Surgery (2012)
- Residency: Creighton University General Surgery Residency (2011) NE
- Medical Education: All India Institute of Medical Sciences (2005) India

Research & Scholarship

CLINICAL TRIALS

- Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial, Recruiting
- Patient-centered multidisciplinary Care for Veterans Undergoing Surgery (PAUSE), Recruiting

Publications

PUBLICATIONS

- **Perspectives on Home Time and Its Association With Quality of Life After Inpatient Surgery Among US Veterans.** *JAMA network open*
Arya, S., Langston, A. H., Chen, R., Sasnal, M., George, E. L., Kashikar, A., Barreto, N. B., Trickey, A. W., Morris, A. M.
2020; 5 (1): e2140196
- **Association Between Patient Frailty and Postoperative Mortality Across Multiple Noncardiac Surgical Specialties.** *JAMA surgery*
George, E. L., Hall, D. E., Youk, A., Chen, R., Kashikar, A., Trickey, A. W., Varley, P. R., Shireman, P. K., Shinall, M. C., Massarweh, N. N., Johanning, J., Arya, S.
2020: e205152
- **Association of Preoperative Patient Frailty and Operative Stress With Postoperative Mortality.** *JAMA surgery*
Shinall, M. C., Arya, S., Youk, A., Varley, P., Shah, R., Massarweh, N. N., Shireman, P. K., Johanning, J. M., Brown, A. J., Christie, N. A., Crist, L., Curtin, C. M., Drolet, et al
2019: e194620
- **Recalibration and External Validation of the Risk Analysis Index: A Surgical Frailty Assessment Tool.** *Annals of surgery*
Arya, S., Varley, P., Youk, A., Borrebach, J. A., Perez, S., Massarweh, N. N., Johanning, J. M., Hall, D. E.
2019
- **Association of Statin Dose With Amputation and Survival in Patients With Peripheral Artery Disease.** *Circulation*
Arya, S., Khakharia, A., Binney, Z. O., DeMartino, R. R., Brewster, L. P., Goodney, P. P., Wilson, P. W.
2018; 137 (14): 1435–46
- **Preoperative Proteinuria is Independently Associated with Mortality after Fenestrated Endovascular Aneurysm Repair.** *Journal of vascular surgery*
Dossabhoy, S. S., Fisher, A. T., Chang, T. I., Owens, D. K., Arya, S., Stern, J. R., Lee, J. T.
2024
- **Comprehensive framework of factors accounting for worse aortic aneurysm outcomes in females: A scoping review.** *Seminars in vascular surgery*
De Freitas, S., Falls, G., Weis, T., Bakhshi, K., Korepta, L. M., Bechara, C. F., Erben, Y., Arya, S., Fatima, J.
2023; 36 (4): 508-516
- **Artificial intelligence in clinical workflow processes in vascular surgery and beyond.** *Seminars in vascular surgery*
Dossabhoy, S. S., Ho, V. T., Ross, E. G., Rodriguez, F., Arya, S.

2023; 36 (3): 401-412

- **A Retrospective Cohort Study to Evaluate Adding Biomarkers to the Risk Analysis Index of Frailty.** *The Journal of surgical research*
Estock, J. L., Pandalai, P. K., Johanning, J. M., Youk, A. O., Varley, P. R., Arya, S., Massarweh, N. N., Hall, D. E.
2023; 292: 130-136
- **Sex differences in outcomes among adults undergoing abdominal aortic aneurysm repair.** *Journal of vascular surgery*
Ramkumar, N., Suckow, B. D., Columbo, J. A., Arya, S., Sedrakyan, A., Mackenzie, T. A., Brown, J. R., Goodney, P. P.
2023
- **Optimal Medical Therapy: Key to Improved Lower Extremity Outcomes, Especially Following Endovascular and Infrainguinal Revascularization for Intermittent Claudication**
Hafeez, M., Khamzina, Y., Andrasca, E., Meyer, J., Liang, N. L., Sridharan, N. D., Hall, D., Arya, S., Tzeng, E., Reitz, K. M.
MOSBY-ELSEVIER.2023: E245-E246
- **Sex-stratified 5-Year Outcomes Following Endovascular Versus Open Repair of Complex Abdominal Aortic Aneurysms**
Yadavalli, S., Rastogi, V., Mehta, A., Allievi, S., de Bruin, J. L., Arya, S., Stangenberg, L., Verhagen, H. M., Schermerhorn, M. L.
MOSBY-ELSEVIER.2023: E105-E106
- **Procedure Mix and Regional Variation in Vascular Community Care Referrals in the Veterans Administration Health Care System**
Costanza, M., Kiang, S. C., Tang, G. L., Hal-Pern, V., Summers, K., Feghali, A., Tsai, S., Alabi, O., Carlson, S., Beavers, F., Mouawad, N. J., Morgan, C., Arya, et al
MOSBY-ELSEVIER.2023: E349-E350
- **SVM Communications: Using registries to investigate vascular disease.** *Vascular medicine (London, England)*
Holder, T. A., Alabi, O., Arya, S., Beach, J. M., Eagle, K., Kim, E. S., Shalhub, S., Gornik, H. L.
2023: 1358863X231169808
- **Simplifying Hospital Quality Comparisons for Vascular Surgery Using Center-level Frailty Burden Rather than Comorbidities.** *Annals of vascular surgery*
George, E. L., Rothenberg, K. A., Barreto, N. B., Chen, R., Trickey, A. W., Arya, S.
2023
- **A framework for perioperative care for lower extremity vascular bypasses: A Consensus Statement by the Enhanced Recovery after Surgery (ERAS®) Society and Society for Vascular Surgery.** *Journal of vascular surgery*
McGinagle, K. L., Spangler, E. L., Ayyash, K., Arya, S., Settembrini, A. M., Thomas, M. M., Dell, K. E., Swiderski, I. J., Davies, M. G., Setacci, C., Urman, R. D., Howell, S. J., Garg, et al
2023
- **Evaluation of Lower Extremity Calcium Score as a Measure of Peripheral Arterial Disease Burden and Amputation Risk.** *Annals of vascular surgery*
Lee, S., Kalra, K., Kashikar, A., Redpath, B., Bernheim, A., Brewster, L., Shaw, L., Arya, S.
2023
- **Racial, ethnic, and socioeconomic inequities in amputation risk for patients with peripheral artery disease and diabetes.** *Seminars in vascular surgery*
Fereydooni, A., Patel, J., Dossabhoy, S. S., George, E. L., Arya, S.
2023; 36 (1): 9-18
- **Transfusion trigger after operations in high cardiac risk patients (TOP) trial protocol. Protocol for a multicenter randomized controlled transfusion strategy trial.** *Contemporary clinical trials*
Kougias, P., Mi, Z., Zhan, M., Carson, J. L., Dosluoglu, H., Nelson, P., Sarosi, G. A., Sm, S. A., Norman, L. E., Sharath, S., Scrymgeour, A., Ollison, J., Calais, et al
2023: 107095
- **Atherectomy Overuse: Do Policy Solutions Exist?** *Journal of the American Heart Association*
George, E. L., Wagner, T. H., Arya, S.
2022; 11 (22): e027422
- **Quantifying Frailty Requires a Conceptual Model Before a Statistical Model** *JAMA SURGERY*
Reitz, K. M., Arya, S., Hall, D. E.
2022; 157 (11): 1065
- **Use of linked registry claims data for long term surveillance of devices after endovascular abdominal aortic aneurysm repair: observational surveillance study.** *BMJ (Clinical research ed.)*

- Goodney, P., Mao, J., Columbo, J., Suckow, B., Schermerhorn, M., Malas, M., Brooke, B., Hoel, A., Scali, S., Arya, S., Spangler, E., Alabi, O., Beck, et al
2022; 379: e071452
- **A Systematic Review of the Recruitment and Outcome Reporting by Sex and Race/Ethnicity in Stent Device Development Trials for Endovascular Abdominal Aortic Aneurysm Repair.** *Annals of vascular surgery*
Patel, J., Pallapothu, S., Langston, A., Trickey, A. W., Burdon, T., Goodney, P., Arya, S.
2022
 - **Quantifying Frailty Requires a Conceptual Model Before a Statistical Model.** *JAMA surgery*
Reitz, K. M., Arya, S., Hall, D. E.
2022
 - **Patient Perspectives on Recovery and Information Needs After Surgery: A Qualitative Study of Veterans.** *The Journal of surgical research*
Sasnal, M., Langston, A. H., Morris, A. M., Harris, A. H., Arya, S.
2022; 279: 765-773
 - **A Personalized Approach to Prevention of Venous Thromboembolism: One Size Does Not Fit All.** *JAMA surgery*
Dua, A., Majumdar, M., Arya, S.
2022
 - **Cardiovascular and Limb Events Following Endovascular Revascularization Among Patients #65Years Old: An American College of Cardiology PVI Registry Analysis.** *Journal of the American Heart Association*
Weissler, E. H., Wang, Y., Gales, J. M., Feldman, D. N., Arya, S., Secemsky, E. A., Aronow, H. D., Hawkins, B. M., Gutierrez, J. A., Patel, M. R., Curtis, J. P., Jones, W. S., Swaminathan, et al
2022: e024279
 - **A Vascular Quality Initiative Frailty Assessment Predicts Post-Discharge Mortality in Patients Undergoing Arterial Reconstruction.** *Journal of vascular surgery*
Kraiss, L. W., Al-Dulaimi, R., Allen, C. M., Mell, M. W., Arya, S., Presson, A. P., Brooke, B. S.
2022
 - **Reply.** *Journal of vascular surgery*
Arya, S., Erben, Y.
2022; 75 (6): 2099-2100
 - **Trends in annual open abdominal aortic surgical volumes for vascular trainees compared to annual national volumes in the endovascular era.** *Journal of vascular surgery*
George, E. L., Arya, S., Ho, V. T., Stern, J. R., Sgroi, M. D., Chandra, V., Lee, J. T.
2022
 - **Closing the Gaps in Racial Disparities in Critical Limb Ischemia Outcome and Amputation Rates: Proceedings from a Society of Interventional Radiology Foundation Research Consensus Panel.** *Journal of vascular and interventional radiology : JVIR*
Bryce, Y., Katzen, B., Patel, P., Moreira, C. C., Fakorede, F. A., Arya, S., D'Andrea, M., Mustapha, J., Rowe, V., Rosenfield, K., Vedantham, S., Abi-Jaoudeh, N., Rochon, et al
2022; 33 (5): 593-602
 - **A National Study of Surgical Palliative and End-of-Life Facility-Level Measures and Outcomes in the Department of Veterans Affairs**
Lorenz, K., Aslakson, R., Garcia, A., Boothroyd, D., Morris, A., Arya, S., Giannitrapani, K., Shreve, S.
ELSEVIER SCIENCE INC.2022: 912
 - **Society for Vascular Surgery Appropriate Use Criteria for Management of Intermittent Claudication.** *Journal of vascular surgery*
Woo, K., Siracuse, J. J., Klingbeil, K., Kraiss, L. W., Osborne, N., Singh, N., Tan, T., Arya, S., Banerjee, S., Bonaca, M. P., Brothers, T., Conte, M. S., Dawson, et al
2022
 - **Ankle- and Toe-Brachial Index for Peripheral Artery Disease Identification: Unlocking Clinical Data Through Novel Methods.** *Circulation. Cardiovascular interventions*
Friberg, J. E., Qazi, A. H., Boyle, B., Franciscus, C., Vaughan-Sarrazin, M., Westerman, D., Patterson, O. V., Parr, S. K., Matheny, M. E., Arya, S., Smolderen, K. G., Lund, B. C., Gobbel, et al
2022: CIRCINTERVENTIONS121011092

- **Perioperative care in open aortic vascular surgery: A Consensus Statement by the Enhanced Recovery after Surgery (ERAS) Society and Society for Vascular Surgery.** *Journal of vascular surgery*
McGinagle, K. L., Spangler, E. L., Pichel, A. C., Ayyash, K., Arya, S., Settembrini, A. M., Thomas, M. M., Dell, K. E., Swiderski, I. J., Lindo, F., Davies, M. G., Setacci, C., Urman, et al
2022
- **Comparing Veterans Affairs and Private Sector Perioperative Outcomes After Noncardiac Surgery.** *JAMA surgery*
George, E. L., Massarweh, N. N., Youk, A., Reitz, K. M., Shinall, M. C., Chen, R., Trickey, A. W., Varley, P. R., Johanning, J., Shireman, P. K., Arya, S., Hall, D. E.
1800
- **Association of Smoking With Postprocedural Complications Following Open and Endovascular Interventions for Intermittent Claudication.** *JAMA cardiology*
Reitz, K. M., Althouse, A. D., Meyer, J., Arya, S., Goodney, P. P., Shireman, P. K., Hall, D. E., Tzeng, E.
2021
- **An analysis of gender disparities amongst United States medical students, general surgery residents, vascular surgery trainees and the vascular surgery workforce.** *Journal of vascular surgery*
Arya, S., Franco-Mesa, C., Erben, Y.
2021
- **The Correlation Between Case Total Work Relative Value Unit, Operative Stress, and Patient Frailty: Retrospective Cohort Study.** *Annals of surgery*
Reitz, K. M., Varley, P. R., Liang, N. L., Youk, A., George, E. L., Shinall, M. C., Shireman, P. K., Arya, S., Tzeng, E., Hall, D. E.
2021; 274 (4): 637-645
- **Open Abdominal Aortic Surgery in the Endovascular Era-Will we have Enough Volume for Vascular Trainees?**
George, E. L., Arya, S., Anand, A., Ho, V., Stern, J. R., Chandra, V., Lee, J. T.
MOSBY-ELSEVIER.2021: E418
- **Open Abdominal Aortic Surgery in the Endovascular Era - Will We Have Enough Volume for Vascular Trainees?**
George, E. L., Arya, S., Anand, A., Ho, V. T., Stern, J. R., Chandra, V., Lee, J. T.
MOSBY-ELSEVIER.2021: E259-E260
- **Institutionalization Rates in First Year After Abdominal Aortic Aneurysm Repair in Older Adults**
Arya, S., Kashikar, A., Gladders, B., Mao, J., Langston, A. H., Sedrakyan, A., Goodney, P.
MOSBY-ELSEVIER.2021: E306-E307
- **Recruitment and Outcome Reporting for Women and Minorities in Stent Device Development Trials for Endovascular Abdominal Aortic Aneurysm Repair**
Patel, J., Pallapothu, S., Trickey, A., Langston, A., Goodney, P., Arya, S.
MOSBY-ELSEVIER.2021: E54
- **Revascularization for Intermittent Claudication Significantly Increases the 5-year Risk of Major Amputation in the Veterans Health Administration**
George, E. L., Chen, R., Barreto, N., Langston, A. H., Trickey, A., Arya, S.
MOSBY-ELSEVIER.2021: E309
- **To Perform or Not to Perform Surgery for Frail Patients?-Reply.** *JAMA surgery*
Arya, S., George, E. L., Hall, D. E.
2021
- **Gender Disparity in Surgical Society Leadership and Annual Meeting Programs.** *The Journal of surgical research*
Tirumalai, A. A., George, E. L., Kashikar, A., Langston, A. H., Rothenberg, K. A., Barreto, N. B., Trickey, A. W., Arya, S.
2021; 266: 69-76
- **Reducing Nontraumatic Lower-Extremity Amputations by 20% by 2030: Time to Get to Our Feet: A Policy Statement From the American Heart Association** *CIRCULATION*
Creager, M. A., Matsushita, K., Arya, S., Beckman, J. A., Duval, S., Goodney, P. P., Gutierrez, J. T., Kaufman, J. A., Maddox, K., Pollak, A. W., Pradhan, A. D., Whitsel, L. P., Amer Heart Assoc Advocacy Coordina
2021; 143 (17): E875-E891
- **US National Trends in Vascular Surgical Practice During the COVID-19 Pandemic.** *JAMA surgery*

- Ho, V. T., Eberhard, A. V., Asch, S. M., Leeper, N. J., Fukaya, E., Arya, S., Ross, E. G.
2021
- **PRISMA Reporting Guidelines for Meta-analyses and Systematic Reviews.** *JAMA surgery*
Arya, S., Kaji, A. H., Boermeester, M. A.
2021
 - **Epidemiology of atherosclerotic carotid artery disease.** *Seminars in vascular surgery*
Dossabhoy, S., Arya, S.
2021; 34 (1): 3–9
 - **Applications of Mobile Health Technology in Surgical Innovation.** *JAMA surgery*
Aalami, O., Ingraham, A., Arya, S.
2021
 - **Of Life and Limb: Addition of Low-Dose Rivaroxaban for Secondary Prevention After Peripheral Artery Disease Surgery.** *Circulation*
George, E. L., Arya, S.
2021; 144 (14): 1117-1119
 - **Recalibration and External Validation of the Risk Analysis Index A Surgical Frailty Assessment Tool** *ANNALS OF SURGERY*
Arya, S., Varley, P., Youk, A., Borrebach, J. D., Perez, S., Massarweh, N. N., Johannig, J. M., Hall, D. E.
2020; 272 (6): 996–1005
 - **A Novel Preoperative Risk Score for Non-Home Discharge After Elective Thoracic Endovascular Aortic Repair.** *Journal of vascular surgery*
Ramirez, J. L., Zarkowsky, D. S., Boitano, L. T., Conrad, M. F., Arya, S., Gasper, W. J., Conte, M. S., Iannuzzi, J. C.
2020
 - **Factors Associated with Preference of Choice of Aortic Aneurysm Repair**
Eid, M. A., Barnes, J., Scali, S., Arya, S., Stone, D.
ELSEVIER SCIENCE INC.2020: S344
 - **Incidence and Management of Arterial Vascular Trauma in the US**
Kashikar, A., Choi, J., Tennakoon, L., Spain, D., Arya, S.
ELSEVIER SCIENCE INC.2020: E263–E264
 - **Postoperative Function as a Measure of Quality in Geriatric Surgical Care-Can We Do Better?** *JAMA surgery*
Seib, C. D., Arya, S.
2020
 - **Managing Central Venous Access during a Healthcare Crisis.** *Journal of vascular surgery*
Chun, T. T., Judelson, D. R., Rigberg, D., Lawrence, P. F., Cuff, R., Shalhub, S., Wohlauser, M., Abularrage, C. J., Anastasios, P., Arya, S., Aulivola, B., Baldwin, M., Baril, et al
2020
 - **Association of Preoperative Frailty and Operative Stress With Mortality After Elective vs Emergency Surgery.** *JAMA network open*
Shinall, M. C., Youk, A., Massarweh, N. N., Shireman, P. K., Arya, S., George, E. L., Hall, D. E.
2020; 3 (7): e2010358
 - **The Affordable Care Act Is Associated With Increased Coverage and Decreased Charges, but Limited Improvement in Access to Vascular Surgery for Medicaid Patients**
George, E. L., Kashikar, A., Barreto, N. B., Chen, R., Trickey, A. W., Arya, S.
MOSBY-ELSEVIER.2020: E247–E248
 - **Frailty Increases Reinterventions for Surgical Site Infections After Infrainguinal Bypass Procedures**
Kashikar, A., Barreto, N. B., George, E. L., Chen, R., Trickey, A. W., Arya, S.
MOSBY-ELSEVIER.2020: E152
 - **The Role Of Multidisciplinary Team Comanagement of the Surgical Patient-It Takes A Village.** *JAMA network open*
Kashikar, A., Arya, S.
2020; 3 (5): e204354

- **Frailty as measured by the Risk Analysis Index is associated with long-term death after carotid endarterectomy.** *Journal of vascular surgery*
Rothenberg, K. A., George, E. L., Barreto, N., Chen, R., Samson, K., Johanning, J. M., Trickey, A. W., Arya, S.
2020
- **Clinical Utility of the Risk Analysis Index as a Prospective Frailty Screening Tool within a Multi-practice, Multi-hospital Integrated Healthcare System.** *Annals of surgery*
Varley, P. R., Borrebach, J. D., Arya, S., Massarweh, N. N., Bilderback, A. L., Wisniewski, M. K., Nelson, J. B., Johnson, J. T., Johanning, J. M., Hall, D. E.
2020
- **Association of peripheral artery disease with life-space mobility restriction and mortality in community-dwelling older adults.** *Journal of vascular surgery*
Arya, S., Khakharia, A., Rothenberg, K. A., Johnson, T. M., Sawyer, P., Kennedy, R. E., Brown, C. J., Bowling, C. B.
2020
- **Association of Sex With Repair Type and Long-term Mortality in Adults With Abdominal Aortic Aneurysm.** *JAMA network open*
Ramkumar, N., Suckow, B. D., Arya, S., Sedrakyan, A., Mackenzie, T. A., Goodney, P. P., Brown, J. R.
2020; 3 (2): e1921240
- **Practical Guide to Meta-analysis.** *JAMA surgery*
Arya, S., Schwartz, T. A., Ghaferi, A. A.
2020
- **Assessment of Risk Analysis Index for Prediction of Mortality, Major Complications and Length of Stay in Vascular Surgery Patients.** *Annals of vascular surgery*
Rothenberg, K. A., George, E. L., Trickey, A. W., Barreto, N. B., Johnson, T. M., Hall, D. E., Johanning, J. M., Arya, S.
2020
- **Patients with Depression Are Less Likely to Go Home After Critical Limb Revascularization.** *Journal of vascular surgery*
Ramirez, J. L., Zahner, G. J., Arya, S. n., Grenon, S. M., Gasper, W. J., Sosa, J. A., Conte, M. S., Iannuzzi, J. C.
2020
- **Poor glycemic control is associated with significant increase in major limb amputation and adverse events in the 30-day postoperative period after infrainguinal bypass.** *Journal of vascular surgery*
McGinagle, K. L., Kindell, D. G., Strassle, P. D., Crouner, J. R., Pascarella, L. n., Farber, M. A., Marston, W. A., Arya, S. n., Kalbaugh, C. A.
2020
- **Validation of the Risk Analysis Index for Evaluating Frailty in Ambulatory Patients.** *Journal of the American Geriatrics Society*
Shah, R. n., Borrebach, J. D., Hodges, J. C., Varley, P. R., Wisniewski, M. K., Shinall, M. C., Arya, S. n., Johnson, J. n., Nelson, J. B., Youk, A. n., Massarweh, N. N., Johanning, J. M., Hall, et al
2020
- **Racial and Sex Disparities in Catheter Use and Dialysis Access in the United States Medicare Population.** *Journal of the American Society of Nephrology : JASN*
Arya, S. n., Melanson, T. A., George, E. L., Rothenberg, K. A., Kurella Tamura, M. n., Patzer, R. E., Hockenberry, J. M.
2020
- **Contemporary Practices and Complications of Surgery for Thoracic Outlet Syndrome in the United States.** *Annals of vascular surgery*
George, E. L., Arya, S. n., Rothenberg, K. A., Hernandez-Broussard, T. n., Ho, V. T., Stern, J. R., Gelabert, H. A., Lee, J. T.
2020
- **Association of comorbid depression with inpatient outcomes in critical limb ischemia.** *Vascular medicine (London, England)*
Zahner, G. J., Cortez, A., Duralde, E., Ramirez, J. L., Wang, S., Hiramoto, J., Cohen, B. E., Wolkowitz, O. M., Arya, S., Hills, N. K., Grenon, S. M.
2019: 1358863X19880277
- **Simplifying Hospital Quality Comparisons for Vascular Surgery Using Center-Level Frailty Burden Rather than Comorbidities**
George, E. L., Rothenberg, K., Barreto, N. L., Chen, R., Trickey, A. W., Arya, S.
ELSEVIER SCIENCE INC.2019: S163–S164
- **Novel Preoperative Risk Score to Identify Patients at High Risk for Non-Home Discharge after Elective Thoracic Endovascular Aortic Aneurysm Repair**
Ramirez, J. L., Zarkowsky, D. S., Boitano, L. T., Conrad, M. F., Arya, S., Gasper, W. J., Conte, M. S., Iannuzzi, J. C.
ELSEVIER SCIENCE INC.2019: S332

- **Patients with Depression Are Less Likely to Go Home after Critical Limb Revascularization**
Ramirez, J. L., Zahner, G. J., Arya, S., Grenon, S., Gasper, W. J., Sosa, J. A., Conte, M. S., Iannuzzi, J. C.
ELSEVIER SCIENCE INC.2019: S332–S333
- **Genome-wide association study of peripheral artery disease in the Million Veteran Program.** *Nature medicine*
Klarin, D., Lynch, J., Aragam, K., Chaffin, M., Assimes, T. L., Huang, J., Lee, K. M., Shao, Q., Huffman, J. E., Natarajan, P., Arya, S., Small, A., Sun, et al
2019
- **Frailty as Measured by the Risk Analysis Index Predicts Long-Term Death After Carotid Endarterectomy**
Rothenberg, K. A., George, E., Barreto, N., Chen, R., Samson, K. K., Johanning, J. M., Trickey, A., Arya, S.
MOSBY-ELSEVIER.2019: E62
- **The Impact of Frailty on Failure to Rescue Following Elective Abdominal Aortic Aneurysm Repair**
George, E. L., Rothenberg, K. A., Barreto, N., Chen, R., Trickey, A., Johanning, J., Hockenberry, J., Arya, S.
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