Stanford

Elizabeth Leigh George

Assistant Professor of Surgery (Vascular Surgery)

Surgery - Vascular Surgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Vascular Surgery**
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Bio

CLINICAL FOCUS

- Vascular Surgery

ACADEMIC APPOINTMENTS

- Assistant Professor-Univ Med Line, Surgery - Vascular Surgery
- Member, Cardiovascular Institute

PROFESSIONAL EDUCATION

- Board Certification: Vascular Surgery, American Board of Surgery (2023)
- Residency: Stanford University Vascular Surgery Residency/Fellowship (2022) CA
- Residency: Stanford School of Medicine (2016) CA
- Medical Education: Stanford University School of Medicine (2014) CA

Teaching

COURSES

2026-27

- Practical Introduction to Surgical Management: SURG 239 (Spr)
- Practical Introduction to Surgical Research: SURG 238 (Win)

2025-26

- Practical Introduction to Surgical Management: SURG 239 (Spr)
- Practical Introduction to Surgical Research: SURG 238 (Win)

2024-25

- Practical Introduction to Surgical Management: SURG 239 (Spr)
- Practical Introduction to Surgical Research: SURG 238 (Win)

Publications

PUBLICATIONS

- **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 Patient Frailty and Operative Stress with Postoperative Mortality: No Such Thing as Low-Risk Operations in Frail Adults**
  Yan, Q., Hall, D. E., Shinall, M. C., Stitzenberg, K. B., Kao, L. S., George, E., Youk, A., Sharma, D., Wang, C., Shireman, P. K.
  ELSEVIER SCIENCE INC.2020: S134–S135

- **The Consequences of Delaying Elective Surgery: Surgical Perspective.** *Annals of surgery*
  Fu, S. J., George, E. L., Maggio, P. M., Hawn, M., Nazerali, R.
  2020; 272 (2): e79-e80

- **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 Effect of Interfacility Transfer in Patients With Blunt Thoracic Aortic Injury**
  Rothenberg, K. A., George, E. L., Ho, V., Barreto, N. B., Lee, J. T., Garcia-Toca, M., Stern, J. R.
  MOSBY-ELSEVIER.2020: E167

- **Intraoperative Heparin Use Is Associated With Reduced Inpatient Mortality After Thoracic Endovascular Aortic Repair for Blunt Aortic Injury**
  Ho, V., Rothenberg, K. A., George, E. L., Lee, J. T., Garcia-Toca, M., Stern, J. R.
  MOSBY-ELSEVIER.2020: E99

- **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

- **Cost-effectiveness Analysis of Ankle-Brachial Index Screening in Patients With Coronary Artery Disease to Optimize Medical Management**
  Minami, H., Itoga, N. K., George, E. L., Garcia-Toca, M.
  MOSBY-ELSEVIER.2020: E250

- **The Consequences of Delaying Elective Surgery: Surgical Perspective.** *Annals of surgery*
  Fu, S. J., George, E. L., Maggio, P. M., Hawn, M., Nazerali, R.
  2020

- **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

- **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

- **Real-World Outcomes of EKOS Ultrasound-Enhanced Catheter-Directed Thrombolysis for Acute Limb Ischemia.** *Annals of vascular surgery*
  George, E. L., Colvard, B., Ho, V., Rothenberg, K. A., Lee, J. T., Stern, J. R.
  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
- **Improving Outcomes After Surgery-An Old Medication With Unexpected Benefits.** *JAMA surgery*
  George, E. L., Wren, S. M.
  2020: e200417
- **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
- **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
- **Cost-Effectiveness Analysis of Routine Repeat CT Head Scan in Patients on Novel Anticoagulation after Trauma**
  Cohan, C., Beattie, G., George, E. L., Rothenberg, K., Dominguez, D. A., Victorino, G. P.
  ELSEVIER SCIENCE INC.2019: E223
- **Delayed Fasciotomy Is Associated with Higher Risk of Major Amputation in Patients with Acute Limb Ischemia** *ANNALS OF VASCULAR SURGERY*
  Rothenberg, K. A., George, E. L., Trickey, A. W., Chandra, V., Stern, J. R.
  2019; 59: 195–201
- **Cost-Effectiveness Analysis of Fenestrated Endovascular Aneurysm Repair Compared With Open Surgical Repair for Patients With Juxtarenal Abdominal Aortic Aneurysms**
  George, E. L., Nardacci, L., Sinawang, P., Rao, I., Owens, D. K., Garcia-Toca, M.
  MOSBY-ELSEVIER.2019: E244–E245
- **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.
  MOSBY-ELSEVIER.2019: E124–E125
- **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
- **Factors Affecting Intervention Rates and Time to Intervention for Lower Extremity Venous Disease in the Private Insurance Market**
  Itoga, N. K., Rothenberg, K. A., George, E. L., Deslarzes-Dubuis, C., Rapanos, T., Harris, E. J.
  MOSBY-ELSEVIER.2019: E255–E256
- **Real-World Outcomes of EKOS Ultrasound-Enhanced Catheter-Directed Thrombolysis for Acute Limb Ischemia**
  George, E. L., Colvard, B., Ho, V. T., Rothenberg, K. A., Lee, J. T., Stern, J. R.
  MOSBY-ELSEVIER.2019: E170–E171
- **Association of Frailty and Postoperative Complications With Unplanned Readmissions After Elective Outpatient Surgery.** *JAMA network open*
  Rothenberg, K. A., Stern, J. R., George, E. L., Trickey, A. W., Morris, A. M., Hall, D. E., Johanning, J. M., Hawn, M. T., Arya, S.
  2019; 2 (5): e194330
- **The Importance of Incorporating Frailty Screening Into Surgical Clinical Workflow** *JAMA NETWORK OPEN*
  George, E. L., Arya, S.
  2019; 2 (5)
- **Delayed Fasciotomy is Associated with Higher Risk of Major Amputation in Patients with Acute Limb Ischemia.** *Annals of vascular surgery*
  Rothenberg, K. A., George, E. L., Trickey, A. W., Chandra, V. n., Stern, J. R.
  2019

- **Comparison of Surgeon Assessment to Frailty Measurement in Abdominal Aortic Aneurysm Repair.** *The Journal of surgical research*
  George, E. L., Kashikar, A. n., Rothenberg, K. A., Barreto, N. L., Chen, R. n., Trickey, A. W., Arya, S. n.
  2019; 248: 38–44

- **Incidence and Risk Factors for Deep Vein Thrombosis after Radiofrequency and Laser Ablation of the Lower Extremity Veins.** *Annals of vascular surgery*
  Itoga, N. K., Rothenberg, K. A., Deslarzes-Dubuis, C. n., George, E. L., Chandra, V. n., Harris, E. J.
  2019

- **Early Real-World Experience with Endoanchors by Indication.** *Annals of vascular surgery*
  Ho, V. T., George, E. L., Dua, A. n., Lavingia, K. S., Sgroi, M. D., Dake, M. D., Lee, J. T.
  2019

- **Variation in center-level frailty burden and the impact of frailty on long-term survival in patients undergoing elective repair for abdominal aortic aneurysms.** *Journal of vascular surgery*
  George, E. L., Chen, R. n., Trickey, A. W., Brooke, B. S., Kraiss, L. n., Mell, M. W., Goodney, P. P., Johanning, J. n., Hockenberry, J. n., Arya, S. n.
  2019

- **The Importance of Incorporating Frailty Screening Into Surgical Clinical Workflow.** *JAMA network open*
  George, E. L., Arya, S. n.
  2019; 2 (5): e193538

- **Disparities as Predictors of Non-Healing in Lower Extremity Wounds**
  George, E. L., Trang, K., Dua, A., Parsley, J. D., Robertson, R., Fukaya, E., Sen, S. K., Gurtner, G. C., Chandra, V.
  ELSEVIER SCIENCE INC.2018: E248

- **Open versus endovascular aneurysm repair trial review** *SURGERY*
  Weinkauf, C., George, E., Zhou, W.
  2017; 162 (5): 974–78

- **Institutional Retrospective Review of Ultrasound-Accelerated Arterial and Venous Thrombolysis**
  Howe, K. L., George, E. L., Lee, A., Chandra, V., Mell, M. W.
  MOSBY-ELSEVIER.2017: 105S

- **Duodenal adenocarcinoma: Advances in diagnosis and surgical management.** *World journal of gastrointestinal surgery*
  Cloyd, J. M., George, E., Visser, B. C.
  2016; 8 (3): 212-221

- **Incidence and Risk Factors for Turf Toe Injuries in Intercollegiate Football: Data From the National Collegiate Athletic Association Injury Surveillance System** *FOOT & ANKLE INTERNATIONAL*
  George, E., Harris, A. H., Dragoo, J. L., Hunt, K. J.
  2014; 35 (2): 108-115

- **Epidemiology of syndesmosis injuries in intercollegiate football: incidence and risk factors from National Collegiate Athletic Association injury surveillance system data from 2004-2005 to 2008-2009.** *Clinical journal of sport medicine*
  Hunt, K. J., George, E., Harris, A. H., Dragoo, J. L.
  2013; 23 (4): 278-282

- **Increased efficiency of the GABAA and GABAB receptor-mediated neurotransmission in the Ts65Dn mouse model of Down syndrome** *NEUROBIOLOGY OF DISEASE*
  Kleschevnikov, A. M., Belichenko, P. V., Gall, J., George, L., Nosheny, R., Maloney, M. T., Salehi, A., Mobley, W. C.
  2012; 45 (2): 683-691

- **Restoration of disk height through non- surgical spinal decompression is associated with decreased discogenic low back pain: a retrospective cohort study** *BMC MUSCULOSKELETAL DISORDERS*
  Apfel, C. C., Cakmakkaya, O. S., Martin, W., Richmond, C., Macario, A., George, E., Schaefer, M., Pergolizzi, J. V.
  2010; 11