



Eri Fukaya

- Clinical Associate Professor, Surgery - Vascular Surgery
- Clinical Associate Professor, Medicine - Primary Care and Population Health

CLINICAL OFFICE (PRIMARY)

- **Heart and Vascular Clinic**

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Fukaya practices Vascular Medicine at the Stanford Vascular Clinics and Advanced Wound Care Center. She received her medical education in Tokyo and completed her medical training both in the US and Japan. She joined Stanford in 2015.

Vascular Medicine covers a wide range of vascular disorders including chronic venous insufficiency, varicose veins, deep vein thrombosis, post thrombotic syndrome, peripheral artery disease, carotid artery disease, cardiovascular risk evaluation, fibromuscular dysplasia, rare vascular disease, lymphedema, arterial/venous/diabetic ulcers, and wound care.

Dr. Fukaya has a special interest in venous disease and started the Stanford Vascular and Vein Clinic in 2016.

Board Certified in Vascular Medicine

Board Certified in Internal Medicine

Board Certified in Internal Medicine (Japan)

Board Certified in Plastic and Reconstructive Surgery (Japan)

CLINICAL FOCUS

- Vascular Medicine
- Venous Disease
- Varicose Veins
- Wound Healing
- Peripheral Artery Disease
- Deep Vein Thrombosis
- Fibromuscular Dysplasia

- Internal Medicine

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Surgery - Vascular Surgery
- Clinical Associate Professor, Medicine - Primary Care and Population Health
- Member, Cardiovascular Institute

PROFESSIONAL EDUCATION

- MD, Tokyo Women's Medical University
- PhD, Tokyo Women's Medical University
- Fellowship, University of Pennsylvania , Vascular Medicine
- Residency, Beth Israel Medical Center, Lankenau Medical Center , Internal Medicine
- Residency, Tokyo Women's Medical University , Plastic and Reconstructive Surgery

Research & Scholarship

PROJECTS

- Genetics of Peripheral Vascular Disease
- FMD Registry
- Bioimpedance in Venous Leg Ulcers

Publications

PUBLICATIONS

- **The 2023 Society for Vascular Surgery, American Venous Forum, and American Vein and Lymphatic Society Clinical Practice Guidelines for the Management of Varicose Veins of the Lower Extremities. Part II.** *Journal of vascular surgery. Venous and lymphatic disorders*
Gloviczki, P., Lawrence, P. F., Wasan, S. M., Meissner, M. H., Almeida, J., Brown, K. R., Bush, R. L., Di Iorio, M., Fish, J., Fukaya, E., Gloviczki, M. L., Hingorani, A., Jayaraj, et al
2023
- **Cyanoacrylate Glue Reactions: A Systematic Review, Cases, and Proposed Mechanisms.** *Journal of vascular surgery. Venous and lymphatic disorders*
Athavale, A., Thao, M., Sasaki, V. S., Lewis, M., Chandra, V., Fukaya, E.
2023
- **An Alternate Explanation.** *The New England journal of medicine*
Alsaigh, T., Dhaliwal, G., Fukaya, E., Leeper, N. J., Sayed, N.
2023; 388 (14): 1318-1324
- **Characteristics of Venous Leg Ulcer Patients at a Tertiary Wound Care Center.** *Journal of vascular surgery. Venous and lymphatic disorders*
Klein, A., Ennis, W., Fukaya, E.
2022
- **The 2022 Society for Vascular Surgery, American Venous Forum, and American Vein and Lymphatic Society Clinical Practice Guidelines for the Management of Varicose Veins of the Lower Extremities.: Part I. Duplex Scanning and Treatment of Superficial Truncal Reflux.** *Journal of vascular surgery. Venous and lymphatic disorders*
Gloviczki, P., Lawrence, P. F., Wasan, S. M., Meissner, M. H., Almeida, J., Brown, K., Bush, R. L., Di Iorio, M., Fish, J., Fukaya, E., Gloviczki, M. L., Hingorani, A., Jayaraj, et al
2022
- **Generation of induced pluripotent stem cell line from a patient suffering from arterial calcification due to deficiency of CD73 (ACDC).** *Stem cell research*
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- **Utilizing an induced pluripotent stem cell platform to model arterial calcification resulting from deficiency of CD73**
Noishiki, C., Alsaigh, T., Wu, D., Adkar, S., Chandra, V., Klarin, D., Lee, J., Fukaya, E., Leeper, N., Sayed, N.
SAGE PUBLICATIONS LTD.2023: 499-500
- **Early observations on large language models for venous disease**
Athavale, A., Fukaya, E., Baier, J.
SAGE PUBLICATIONS LTD.2023: 510
- **A Comparison of Below-Knee versus Above-Knee Endovenous Ablation of Varicose Veins.** *Journal of vascular surgery. Venous and lymphatic disorders*
Bai, H., Gokani, V., Storch, J. B., Kibrik, P., Aziz, F., Sachdev, U., Fukaya, E., Ochoa Chara, C. I., Obi, A. T., Ting, W.
2023
- **The Variations and Inconsistencies in Venous Ablation Coverage Policies between Single State and Multistate Carriers in the United States.** *Journal of vascular surgery. Venous and lymphatic disorders*
Pinto, P., Fukaya, E., Rodriguez, L. E., Obi, A., Ting, W., Aziz, F., Nguyen, K., Murphy, E. H., Ochoa Chara, C. I.
2023
- **A Systematic Review on Ablation Techniques for Larger Saphenous Veins in Patients with Symptomatic Superficial Venous Disease.** *Journal of vascular surgery. Venous and lymphatic disorders*
Athavale, A., Monahan, D., Fukaya, E.
2023
- **SVM Communications: Venous Taskforce update and Society announcements.** *Vascular medicine (London, England)*
Ahsan, S. T., Esponda, O., Li, W., Amini, R., Shaydakov, M., Wheeler, J., Fukaya, E.
2023: 1358863X231195630
- **Varicose Veins: Approach, Assessment, and Management to the Patient with Chronic Venous Disease.** *The Medical clinics of North America*
Sasaki, V. S., Fukaya, E.
2023; 107 (5): 895-909
- **A Nurse-Led Care Delivery App and Telehealth System for Patients Requiring Wound Care: Mixed Methods Implementation and Evaluation Study.** *JMIR formative research*
Brown-Johnson, C. G., Lessios, A. S., Thomas, S., Kim, M., Fukaya, E., Wu, S., Kling, S. M., Brown, G., Winget, M.
2023; 7: e43258
- **The potential of chatbots in chronic venous disease patient management.** *JVS-vascular insights*
Athavale, A., Baier, J., Ross, E., Fukaya, E.
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- **Images in Vascular Medicine: Vascular complications in a young patient with vascular Ehlers-Danlos syndrome.** *Vascular medicine (London, England)*
Suresh Kumar, G., Pariani, M., Liang, D. H., Fukaya, E.
2023: 1358863X231170652
- **Sticking to the same thromboprophylaxis for surgical sickle cell disease patients.** *Journal of vascular surgery. Venous and lymphatic disorders*
Fukaya, E.
2023; 11 (3): 553-554
- **VIEW-VLU Observational Study of the Effect of Varithena on Wound Healing in the Treatment of Venous Leg Ulcers.** *Journal of vascular surgery. Venous and lymphatic disorders*
Shao, M. Y., Harlin, S., Chan, B., Santangelo, K., Fukaya, E., Stoughton, J., Kolluri, R.
2023
- **Developing ways to compare and contrast for deep venous interventions.** *Journal of vascular surgery. Venous and lymphatic disorders*
Fukaya, E.
2023; 11 (2): 432
- **Complications of vascular Ehlers-Danlos syndrome**
Fukaya, E., Kumar, G., Pariani, M., Liang, D. H.
SAGE PUBLICATIONS LTD.2022: NP3

- **Rare adverse event following cyanoacrylate closure of greater saphenous vein**
Athavale, A., Fukaya, E., Sassaki, V. S.
SAGE PUBLICATIONS LTD.2022: NP7-NP8
- **Approach to venous leg ulcers- should we determine subtypes?**
Fukaya, E., Lopez, N. G., Klein, A.
SAGE PUBLICATIONS LTD.2022: 649
- **Guideline medication adherence patterns and physical activity in people with peripheral artery disease: a multiethnic study of atherosclerosis study**
Chakoma, T. L., Alsaigh, T., Fukaya, E., Allison, M., Ross, E.
SAGE PUBLICATIONS LTD.2022: 647-648
- **Increasing access, quality, and convenience of care through a specialty-matched telenursing platform for vascular and wound patients - a pilot study**
Thomas, S., Fukaya, E., Kim, M., Winget, M., Brown-Johnson, C., Lestoquoy, A., Veruttipong, D.
SAGE PUBLICATIONS LTD.2022: 656
- **Vascular Disease Patient Information Page: Venous leg ulcers.** *Vascular medicine (London, England)*
Fukaya, E., Klein, A., Lau, J., Ratchford, E. V.
2022: 1358863X221118120
- **Varicose Veins and Chronic Venous Disease.** *Cardiology clinics*
Alsaigh, T., Fukaya, E.
2021; 39 (4): 567-581
- **Epidemiology and Genetics of Venous Thromboembolism and Chronic Venous Disease.** *Circulation research*
Baylis, R. A., Smith, N. L., Klarin, D., Fukaya, E.
2021; 128 (12): 1988-2002
- **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
- **Incentivizing physical activity through activity monitoring interventions in PAD - a pilot study.** *VASA. Zeitschrift fur Gefasskrankheiten*
Fukaya, E., Welden, S., Bukari, A., Khan, Z., Leeper, N., Mohler, E.
2020: 1-6
- **Identifying dietary and nutritional risk factors for symptomatic peripheral arterial disease using the UK biobank cohort study**
Kaufman, A., Fukaya, E., Leeper, N., Ross, E.
SAGE PUBLICATIONS LTD.2020: NP5
- **The impact of low-dose anticoagulation therapy on peripheral artery disease: insights from the VOYAGER trial.** *Cardiovascular research*
Fukaya, E. n., Leeper, N. J.
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- **Er:YAG Laser versus Sharp Debridement in Management of Chronic Wounds: Effects on Pain and Bacterial Load.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*
Hajhosseini, B., Chiou, G. J., Dori, G., Fukaya, E., Chandra, V., Meyer, S., Gurtner, G. C.
2019
- **Clinical and Genetic Determinants of Varicose Veins Prospective, Community-Based Study of approximate to 500 000 Individuals** *CIRCULATION*
Fukaya, E., Flores, A. M., Lindholm, D., Gustafsson, S., Zanetti, D., Ingelsson, E., Leeper, N. J.
2018; 138 (25): 2869-80
- **Clinical and Genetic Determinants of Varicose Veins.** *Circulation*
Fukaya, E., Flores, A. M., Lindholm, D., Gustafsson, S., Zanetti, D., Ingelsson, E., Leeper, N. J.
2018; 138 (25): 2869-80
- **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.
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- **Bioimpedance and New-Onset Heart Failure: A Longitudinal Study of >500 000 Individuals From the General Population** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*
Lindholm, D., Fukaya, E., Leeper, N. J., Ingelsson, E.
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- **Clinical and genetic determinants of varicose veins: a prospective, community-based prospective study of similar to 500,000 individuals**
Fukaya, E., Flores, A., Lindholm, D., Gustafsson, S., Ingelsson, E., Leeper, N.
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- **Incentivizing physical activity through activity monitoring interventions in PAD - a pilot study**
Fukaya, E., Welden, S., Bukari, A., Khan, Z., Barankay, I., Mohler, E.
SAGE PUBLICATIONS LTD.2018: 313
- **Impact of Pocket Ultrasound Use by Internal Medicine Housestaff in the Diagnosis of Dyspnea** *JOURNAL OF HOSPITAL MEDICINE*
Filopei, J., Siedenburg, H., Rattner, P., Fukaya, E., Kory, P.
2014; 9 (9): 594-597
- **Peripheral arterial disease, prevalence and cumulative risk factor profile analysis** *EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY*
Eraso, L. H., Fukaya, E., Mohler, E. R., Xie, D., Sha, D., Berger, J. S.
2014; 21 (6): 704-711
- **Endothelial progenitor cell mobilization following acute wound injury** *WOUND REPAIR AND REGENERATION*
Fukaya, E., Margolis, D. J., Miller, C. J., Milovanova, T. N., Papadopoulos, M., Thom, S. R.
2013; 21 (6): 907-908
- **Approach to diagnosing lower extremity ulcers** *DERMATOLOGIC THERAPY*
Fukaya, E., Margolis, D. J.
2013; 26 (3): 181-186
- **Images in vascular medicine. Spontaneous celiac artery dissection.** *Vascular medicine*
Kunkel, K., Fukaya, E., Pena, A., Mohler, E.
2013; 18 (1): 47-48
- **Heparin-induced thrombocytopenia: analysis of risk factors in medical inpatients** *BRITISH JOURNAL OF HAEMATOLOGY*
Kato, S., Takahashi, K., Ayabe, K., Samad, R., Fukaya, E., Friedmann, P., Varma, M., Bergmann, S. R.
2011; 154 (3): 373-377
- **Imaging of the superficial inferior epigastric vascular anatomy and preoperative planning for the SIEA flap using MDCTA** *JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY*
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Ihara, K., Ito, H., Nakajima, Y., Fukaya, E., Nakazawa, H., Nozaki, M.
2010; 37 (10): 900-903
- **Magnetic resonance angiography to evaluate septocutaneous perforators in free fibula flap transfer** *JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY*
Fukaya, E., Saloner, D., Leon, P., Wintermark, M., Grossman, R. F., Nozaki, M.
2010; 63 (7): 1099-1104
- **Monitoring Partial and Full Venous Outflow Compromise in a Rabbit Skin Flap Model** *PLASTIC AND RECONSTRUCTIVE SURGERY*
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2009; 124 (3): 796-803
- **Monitoring the changes in intraparenchymatous venous pressure to ascertain flap viability** *PLASTIC AND RECONSTRUCTIVE SURGERY*
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- **Magnetic resonance angiography for free fibula flap transfer** *JOURNAL OF RECONSTRUCTIVE MICROSURGERY*

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2007; 23 (4): 205-211

● **HBO and gas embolism** *NEUROLOGICAL RESEARCH*

Fukaya, E., Hopf, H. W.
2007; 29 (2): 142-145

● **Divided naevus of the penis: A hypothesis on the embryological mechanism of its development** *ACTA DERMATO-VENEREOLOGICA*

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