

Stanford



Paige Fox, MD, PhD, FACS

Associate Professor of Surgery (Plastic and Reconstructive Surgery)

Surgery - Plastic & Reconstructive Surgery

CLINICAL OFFICES

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• Pediatric Hand and Upper Extremity Clinic

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Bio

BIO

Dr. Paige Fox is Board Certified Plastic Surgeon who specialized in hand surgery, reconstructive microsurgery, as well as peripheral nerve and brachial plexus surgery. She is an Associate Professor in the Division of Plastic and Reconstructive surgery in the Department of Surgery. She works with adult and pediatric patients. Her research focuses on wound healing, disorders of the upper extremity, and surgical biosensors. Dr. Fox has a passion for sustainability and health care's effect on the environment. She is involved in efforts to green the OR and the clinics at Stanford.

CLINICAL FOCUS

- Adult and Pediatric Hand Surgery
- Plastic and Reconstructive Surgery
- Peripheral Nerve Surgery
- Facial Reanimation
- Microsurgery

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Surgery - Plastic & Reconstructive Surgery
- Member, Bio-X

HONORS AND AWARDS

- Ryan-Upson Scholar in Plastic and Reconstructive Surgery, Stanford School of Medicine (2018-2021)

PROFESSIONAL EDUCATION

- Fellowship: Mayo Clinic Upper Extremity Reconstructive Surgery Fellowship (2015) MN
- Residency: Stanford University Dept of Plastic Surgery (2014) CA
- Board Certification: Surgery of the Hand, American Board of Plastic Surgery (2017)
- Medical Education: Virginia Commonwealth University (2008) VA

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Jordan Burgess, Shannon Francis, Heather Talbott

Publications

PUBLICATIONS

- **The Development and Validation of Data Elements and Process Steps for an Electronic Health Record for Hand Surgery Outreach Trips** *JOURNAL OF HAND AND MICROSURGERY*
Shapiro, L. M., Chang, J., Fox, P. M., Kozin, S., Chung, K. C., Dyer, G. M., Fufa, D., Leversedge, F., Katarincic, J., Kamal, R.
2022
- **The environmental impact of surgery: A systematic review.** *Surgery*
Shoham, M. A., Baker, N. M., Peterson, M. E., Fox, P.
2022
- **Wellness: Building a Meaningful and Effective Program.** *Plastic and reconstructive surgery*
Chavez, J. E., Fox, P. M.
2022
- **Partial Tendon Injury at the Tendon-to-Bone Enthesis Activates Skeletal Stem Cells.** *Stem cells translational medicine*
Titan, A. L., Davitt, M., Foster, D., Salhotra, A., Menon, S., Chen, K., Fahy, E., Lopez, M., Jones, R. E., Baiu, I., Burcham, A., Januszyk, M., Gurtner, et al
2022
- **Use of Tendon Allograft for Recurrent Extensor Carpi Ulnaris Instability in Ehlers-Danlos Syndrome: A Case Report.** *Journal of wrist surgery*
Christie, B. M., Fox, P. M.
2022; 11 (1): 81-83
- **Predicting Academic Performance during Plastic Surgery Residency: Can Step 2 Scores Reliably Replace Step 1?** *Journal of surgical education*
Sergesketter, A. R., Shammass, R. L., Langdell, H. C., Geng, Y., Eberlin, K. R., Fox, P., Ko, J. H., Lifchez, S. D., Momoh, A. O., Nguyen, V., Tenenbaum, M., Thanik, V., Phillips, et al
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- **The Environmental Impact of Surgery**
Shoham, M., Baker, N., Peterson, M., Fox, P.
ELSEVIER SCIENCE INC.2021: S133
- **Use of Hand Therapy After Distal Radius Fracture: A National Perspective.** *The Journal of hand surgery*
Trinh, P., Rochlin, D., Sheckter, C., Moore, W., Fox, P., Curtin, C.
2021
- **Post-surgical wireless monitoring of arterial health progression.** *iScience*
Ruth, S. R., Kim, M., Oda, H., Wang, Z., Khan, Y., Chang, J., Fox, P. M., Bao, Z.
2021; 24 (9): 103079
- **Short Message Service-Based Collection of Patient-Reported Outcome Measures on Hand Surgery Global Outreach Trips: A Pilot Feasibility Study.** *The Journal of hand surgery*

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- Shapiro, L. M., Dinh, M. P., Tran, L., Fox, P. M., Richard, M. J., Kamal, R. N.
2021
- **Optimizing Treatment of Hand Infections: Is MRSA Coverage Always Necessary?** *Plastic and reconstructive surgery. Global open*
Oliver, J. D., Pridgen, B. C., desJardins-Park, H. E., Curtin, C., Fox, P. M.
2021; 9 (6): e3619
 - **Life Happens, Even to Surgical Trainees.** *JAMA surgery*
George, E. L., Fox, P., Hawn, M. T.
2021
 - **Use of Tendon Allograft for Recurrent Extensor Carpi Ulnaris Instability in Ehlers-Danlos Syndrome: A Case Report** *JOURNAL OF WRIST SURGERY*
Christie, B. M., Fox, P. M.
2021
 - **Autologous Fat Grafting in Hand Surgery.** *The Journal of hand surgery*
Deptula, P., Fox, P.
2021
 - **Barriers and Facilitators of Outcome Collection During Hand Surgery Outreach: A Quality Improvement Study.** *Hand (New York, N.Y.)*
Shapiro, L. M., Dinh, M. P., Fox, P. M., Richard, M. J., Eppler, S. L., Kamal, R. N.
2021: 15589447211003183
 - **Proceed with Caution: Mouse Deep Digit Flexor Tendon Injury Model.** *Plastic and reconstructive surgery. Global open*
Titan, A. L., Fahy, E. n., Chen, K. n., Foster, D. S., Bennett-Kennett, R. n., Dauskardt, R. H., Gurtner, G. C., Chang, J. n., Fox, P. M., Longaker, M. T.
2021; 9 (1): e3359
 - **Characteristics of Patients With Complex Limb Pain Evaluated Through an Interdisciplinary Approach Utilizing Magnetic Resonance Neurography** *Frontiers in Pain Research*
Johnson, E. M., Yoon, D., Biswal, S., Curtin, C., Fox, P., Wilson, T. J., Carroll, I., Lutz, A., Tawfik, V.
2021
 - **Are All Posts Created Equal? A Review of Academic Plastic Surgery Residency Programs' Social Media Engagement Statistics.** *Plastic and reconstructive surgery*
Irwin, T. J., Ortiz, R., Leto Barone, A. A., Veeravagu, L., Sherif, R. D., Lifchez, S. D., Fox, P. M., Momoh, A. O., Liao, E. C., Eberlin, K. R.
2021
 - **Hand Surgery Transfers to Level 1 Center: Variables Affecting Transfer Method and Diagnostic Accuracy.** *Plastic and reconstructive surgery. Global open*
Putnam, J., Pedreira, R., Fox, P.
2020; 8 (12): e3279
 - **Separating Fact From Fiction: A Nationwide Longitudinal Examination of Complex Regional Pain Syndrome Following Treatment of Dupuytren Contracture.** *Hand (New York, N.Y.)*
Rochlin, D. H., Sheckter, C. C., Satteson, E. S., Swan, C. C., Fox, P. M., Curtin, C.
2020: 1558944720963915
 - **Analysis of Cell-seeded, Collagen-rich Hydrogel for Wound Healing**
Sotelo Leon, D., Williams, T., Wang, Z., Leyden, J., Franklin, A., Kaizawa, Y., Chang, J., Fox, P. M.
LIPPINCOTT WILLIAMS & WILKINS.2020: e3049
 - **Topical Antibiotic Elution in a Collagen-Rich Hydrogel is Successful for Inhibiting Bacterial Growth and Biofilm Formation in Vitro.** *Antimicrobial agents and chemotherapy*
Min, J. G., Sanchez Rangel, U. J., Franklin, A., Oda, H., Wang, Z., Chang, J., Fox, P. M.
2020
 - **Measuring and Improving the Quality of Care During Global Outreach Trips: A Primer for Safe and Sustainable Surgery.** *The Journal of hand surgery*
Shapiro, L. M., Global-Quest Investigators, Shapiro, L. M., Chang, J., Fox, P. M., Kozin, S. H., Chung, K. C., Dyer, G. S., Fufa, D. T., Leversedge, F. J., Katarincic, J. A., Kamal, R. N.
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- **Homing of Adipose-Derived Stem Cells to a Tendon-Derived Hydrogel: A Potential Mechanism for Improved Tendon-Bone Interface and Tendon Healing.** *The Journal of hand surgery*
Franklin, A., Gi Min, J., Oda, H., Kaizawa, Y., Leyden, J., Wang, Z., Chang, J., Fox, P. M.
2020
- **Neonatal Compartment Syndrome and Compound Presentation at Birth.** *Journal of hand surgery global online*
Shen, A. H., Tevlin, R., Kwan, M. D., Ho, O. H., Fox, P. M.
2020; 2 (3): 166-170
- **A Human-Derived, Collagen-Rich Hydrogel Augments Wound Healing in a Diabetic Animal Model.** *Annals of plastic surgery*
Williams, T. n., Sotelo Leon, D. n., Kaizawa, Y. n., Wang, Z. n., Leyden, J. n., Chang, J. n., Fox, P. M.
2020
- **Quality Measures to Deliver Safe, High-Quality Care on Hand Surgery Outreach Trips to Low and Middle-Income Countries.** *The Journal of bone and joint surgery. American volume*
Shapiro, L. M.
2020; Publish Ahead of Print
- **Prevalence of Ganglion Cyst Formation After Wrist Arthroscopy: A Retrospective Longitudinal Analysis of 2420 Patients.** *Hand (New York, N.Y.)*
Rochlin, D. H., Perrault, D. n., Shekter, C. C., Fox, P. n., Yao, J. n.
2020: 1558944720939203
- **Patient Willingness to Pay for Faster Return to Work or Smaller Incisions.** *Hand (New York, N.Y.)*
Alokzai, A., Lindsay, S. E., Eppler, S. L., Fox, P. M., Ladd, A. L., Kamal, R. N.
2019: 1558944719890039
- **A Novel Technology for Free Flap Monitoring: Pilot Study of a Wireless, Biodegradable Sensor.** *Journal of reconstructive microsurgery*
Oda, H., Beker, L., Kaizawa, Y., Franklin, A., Min, J. G., Leyden, J., Wang, Z., Chang, J., Bao, Z., Fox, P. M.
2019
- **Electromyographic Analysis of Grip** *ORTHOPEDICS*
Fox, P. M., Oliver, J. D., Viet Nguyen, Hentz, V. R., Curtin, C. M.
2019; 42 (6): E555–E558
- **Human Tendon-Derived Collagen Hydrogel Significantly Improves Biomechanical Properties of the Tendon-Bone Interface in a Chronic Rotator Cuff Injury Model** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*
Kaizawa, Y., Leyden, J., Behn, A. W., Tulu, U., Franklin, A., Wang, Z., Abrams, G., Chang, J., Fox, P. M.
2019; 44 (10)
- **Augmentation of chronic rotator cuff healing using adipose-derived stem cell-seeded human tendon-derived hydrogel** *JOURNAL OF ORTHOPAEDIC RESEARCH*
Kaizawa, Y., Franklin, A., Leyden, J., Behn, A. W., Tulu, U. S., Leon, D., Wang, Z., Abrams, G. D., Chang, J., Fox, P. M.
2019; 37 (4): 877–86
- **Quality of Randomized Controlled Trials for Surgical Treatment of Carpal Tunnel Syndrome: A Systematic Review.** *Plastic and reconstructive surgery*
Long, C., Azad, A. D., desJardins-Park, H. E., Fox, P. M.
2019; 143 (3): 791–99
- **Biodegradable and flexible arterial-pulse sensor for the wireless monitoring of blood flow.** *Nature biomedical engineering*
Boutry, C. M., Beker, L., Kaizawa, Y., Vassos, C., Tran, H., Hinckley, A. C., Pfattner, R., Niu, S., Li, J., Claverie, J., Wang, Z., Chang, J., Fox, et al
2019; 3 (1): 47-57
- **Patient Preferences for Shared Decision Making: Not All Decisions Should Be Shared.** *The Journal of the American Academy of Orthopaedic Surgeons*
E Lindsay, S. n., Alokzai, A. n., Eppler, S. L., Fox, P. n., Curtin, C. n., Gardner, M. n., Avedian, R. n., Palanca, A. n., Abrams, G. D., Cheng, I. n., Kamal, R. N.
2019
- **Biodegradable and flexible arterial-pulse sensor for the wireless monitoring of blood flow** *NATURE BIOMEDICAL ENGINEERING*
Boutry, C. M., Beker, L., Kaizawa, Y., Vassos, C., Tran, H., Hinckley, A. C., Pfattner, R., Niu, S., Li, J., Claverie, J., Wang, Z., Chang, J., Fox, et al
2019; 3 (1): 47–57

- **Treating the Proximal Interphalangeal Joint in Swan Neck and Boutonniere Deformities.** *Hand clinics*
Fox, P. M., Chang, J. n.
2018; 34 (2): 167-76
- **Quality of surgical randomized controlled trials in hand surgery: a systematic review.** *The Journal of hand surgery, European volume*
Long, C., desJardins-Park, H. E., Popat, R., Fox, P. M.
2018: 1753193418780184
- **Molecular Biology of Flexor Tendon Healing in Relation to Reduction of Tendon Adhesions.** *The Journal of hand surgery*
Legrand, A., Kaufman, Y., Long, C., Fox, P. M.
2017
- **Intratendinous Injection of Hydrogel for Reseeding Decellularized Human Flexor Tendons.** *Plastic and reconstructive surgery*
Long, C., Galvez, M. G., Legrand, A., Joubert, L., Wang, Z., Chattopadhyay, A., Chang, J., Fox, P. M.
2017; 139 (6): 1305e-1314e
- **De Novo Upper Extremity Lymphedema After Elective Hand Surgery in Breast Cancer Survivors.** *Annals of plastic surgery*
Baltzer, H. L., Harvey, J., Fox, P. M., Moran, S. L.
2017
- **Tendon Tissue Engineering: Mechanism and Effects of Human Tenocyte Coculture With Adipose-Derived Stem Cells.** *The Journal of hand surgery*
Long, C. n., Wang, Z. n., Legrand, A. n., Chattopadhyay, A. n., Chang, J. n., Fox, P. M.
2017
- **Access to surgical upper extremity care for people with tetraplegia: an international perspective** *SPINAL CORD*
Fox, P. M., Suarez, P., Hentz, V. R., Curtin, C. M.
2015; 53 (4): 302-305
- **Grafting the alar rim: application as anatomical graft.** *Plastic and reconstructive surgery*
Gruber, R. P., Fox, P., Peled, A., Belek, K. A.
2014; 134 (6): 880e-7e
- **Management of Frontal Sinus Fractures: Treatment Modality Changes at a Level I Trauma Center** *JOURNAL OF CRANIOFACIAL SURGERY*
Fox, P. M., Garza, R., Dusch, M., Hwang, P. H., Girod, S.
2014; 25 (6): 2038-2042
- **Management of frontal sinus fractures: treatment modality changes at a level I trauma center.** *journal of craniofacial surgery*
Fox, P. M., Garza, R., Dusch, M., Hwang, P. H., Girod, S.
2014; 25 (6): 2038-2042
- **Fascia-only anterolateral thigh flap for extremity reconstruction.** *Annals of plastic surgery*
Fox, P., Endress, R., Sen, S., Chang, J.
2014; 72: S9-S13
- **Decellularized human tendon-bone grafts for composite flexor tendon reconstruction: a cadaveric model of initial mechanical properties.** *The Journal of hand surgery*
Fox, P. M., Farnebo, S., Lindsey, D., Chang, J., Schmitt, T., Chang, J.
2013; 38 (12): 2323-8
- **Human flexor tendon tissue engineering: in vivo effects of stem cell reseeded.** *Plastic and reconstructive surgery*
Schmitt, T., Fox, P. M., Woon, C. Y., Farnebo, S. J., Bronstein, J. A., Behn, A., Pham, H., Chang, J.
2013; 132 (4): 567e-76e
- **Management of the hand in systemic sclerosis.** *journal of hand surgery*
Fox, P., Chung, L., Chang, J.
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- **White light spectroscopy for free flap monitoring** *MICROSURGERY*
Fox, P. M., Zeidler, K., Carey, J., Lee, G. K.
2013; 33 (3): 198-202

- **Computed tomography angiography in microsurgery: indications, clinical utility, and pitfalls.** *Eplasty*
Lee, G. K., Fox, P. M., Riboh, J., Hsu, C., Saber, S., Rubin, G. D., Chang, J.
2013; 13
- **Tissue expander with acellular dermal matrix for breast reconstruction infected by an unusual pathogen: *Candida parapsilosis*** *JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY*
Fox, P. M., Lee, G. K.
2012; 65 (10): E286-E289
- **Supercharged Free Fibula for Complex Ankle Arthrodesis A Case Report** *ANNALS OF PLASTIC SURGERY*
Fox, P. M., Chou, L., Lee, G. K.
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- **Spontaneous deletion of the methicillin resistance determinant, *mecA*, partially compensates for the fitness cost associated with high-level vancomycin resistance in *Staphylococcus aureus*** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
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- **Lack of relationship between purine biosynthesis and vancomycin resistance in *Staphylococcus aureus*: a cautionary tale for microarray interpretation** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
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2007; 51 (4): 1274-1280
- **Vancomycin-intermediate *Staphylococcus aureus* strains have impaired acetate catabolism: Implications for polysaccharide intercellular adhesin synthesis and autolysis** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
Nelson, J. L., Rice, K. C., Slater, S. R., Fox, P. M., Archer, G. L., Bayles, K. W., Fey, P. D., Kreiswirth, B. N., Somerville, G. A.
2007; 51 (2): 616-622
- **Successful therapy of experimental endocarditis caused by vancomycin-resistant *Staphylococcus aureus* with a combination of vancomycin and beta-lactam antibiotics** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
Fox, P. M., Lampert, R. J., Stumpf, K. S., Archer, G. L., Climo, M. W.
2006; 50 (9): 2951-2956
- **The up-regulation of ferritin expression using a small-molecule ligand to the native mRNA** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Tibodeau, J. D., Fox, P. M., Ropp, P. A., Theil, E. C., Thorp, H. H.
2006; 103 (2): 253-257