Stanford



Leandra A. Barnes, MD, MPH, FAAD

Instructor, Dermatology

CLINICAL OFFICE (PRIMARY)

- **Dermatology North Campus**

  450 Broadway St

  Pavilion C 2nd Fl MC 5334

  Redwood City, CA 94063

  Tel (650) 721-7170 **Fax** (650) 721-3464

Bio

BIO

Dr. Barnes is a board-certified dermatologist who provides care at Stanford Health Care Dermatology Clinics in Redwood City and Emeryville. She is also an Instructor of Dermatology within the Department of Dermatology at Stanford School of Medicine.

Dr. Barnes specializes in diagnosing and treating a broad range of skin conditions, including hidradenitis suppurativa, skin cancer, and conditions that disproportionally impact people of color. As Co-Director of the Stanford Medicine Hidradenitis Suppurativa Specialty Clinic, her clinical focus includes maximizing awareness of and care options for this condition. Dr. Barnes is also the Founding Director of the Stanford Medicine Skin of Color Program and Director of Advocacy, Equity, and Inclusion in the Department of Dermatology at Stanford Medicine.

Dr. Barnes' clinical research focuses on identifying the underlying mechanisms associated with the onset and progression of hidradenitis suppurativa. These efforts include research on access to care among different patient populations and studies identifying immune-mediated characteristics of the condition. She is also engaged in efforts to promote broader and more effective outreach initiatives to drive melanoma awareness among minority populations and young children.

Dr. Barnes has published her work in numerous peer-reviewed journals, including the Journal of Investigative Dermatology, JAMA Dermatology, and the Journal of the American Academy of Dermatology. She has also been an invited guest speaker at national and international meetings, including those for the Society of Investigative Dermatology and the World Congress of Dermatology.

CLINICAL FOCUS

- Dermatology
- Hidradenitis suppurativa
- Skin of Color Dermatology
- Acne

- Dermatologic Surgery
- Eczema
- Excessive Sweating
- Psoriasis
- Skin Cancer Prevention and Treatment

ACADEMIC APPOINTMENTS

- Instructor, Dermatology
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Instructor of Dermatology, Stanford University, Department of Dermatology, (2023- present)
- Pool Staff Physician, Kaiser Permanente Dermatology, (2023-2023)

HONORS AND AWARDS

- Magna Cum Laude, Harvard University

PROFESSIONAL EDUCATION

- MPH, Harvard University , Harvard T.H. Chan School of Public Health (2026)
- Board Certification: Dermatology, American Board of Dermatology (2023)
- Residency: Stanford University Dermatology Residency (2023) CA
- Internship: Santa Clara Valley Medical Center Internal Medicine Residency (2020) CA
- Medical Education: Stanford University School of Medicine (2019) CA
- MD, Stanford University , Medicine, Bioengineering Scholarly Concentration (2019)
- Bachelor of Arts, Harvard University , Molecular and Cellular Biology, Japanese Language Citation (2013)

Research & Scholarship

RESEARCH INTERESTS

- Artificial intelligence (AI)
- Community-Engaged Research
- Data Science
- Mixed Methods
- Qualitative Methods
- Quantitative Methods

Publications

PUBLICATIONS

- **Global barriers to sexual health, pregnancy, and breastfeeding in hidradenitis suppurativa.** *International journal of women's dermatology*
  Barnes, L. A., Rinderknecht, F. B., Hsiao, J. L., Naik, H. B.
  2026; 12 (2): e261

- **Environmental and Social Drivers of Hidradenitis Suppurativa.** *JAMA dermatology*
  Baker, N. M., Santiago-Soltero, K., Flores, V., Lim, S., de Oliveira Wafae, B. G., Cohen, S. R., Cobos, G., Manjaly, P., Porter, M. L., Orlowski, G., Chen, K., Barnes, L. A., Chang, et al

2026

- **Global Pain Management Trends and Barriers to Care in Hidradenitis Suppurativa.** *Dermatology (Basel, Switzerland)*
  Barnes, L. A., Rinderknecht, F. B., Orenstein, L. A., Naik, H. B.
  2026: 1-12
- **Biologic Therapy and Risk of Mental Health Diagnosis in Patients with Hidradenitis Suppurativa.** *The Journal of investigative dermatology*
  Ofori-Darko, A., Barzallo, D., Sinnott, S. M., Naik, H. B., Hernandez-Boussard, T., Amonoo, H. L., Barnes, L. A.
  2025
- **Sexual and gender minority inclusivity in hidradenitis suppurativa patient-reported outcomes.** *The British journal of dermatology*
  Jia, J. L., Sun, K. H., Naik, H. B., Barnes, L. A.
  2025
- **Barriers to Health Care Access for People with Hidradenitis Suppurativa.** *Dermatologic clinics*
  Barnes, L. A., , Naik, H. B.
  2025; 43 (2): 331-358
- **An evaluation framework for clinical use of large language models in patient interaction tasks.** *Nature medicine*
  Johri, S., Jeong, J., Tran, B. A., Schlessinger, D. I., Wongvibulsin, S., Barnes, L. A., Zhou, H. Y., Cai, Z. R., Van Allen, E. M., Kim, D., Daneshjou, R., Rajpurkar, P.
  2025
- **Patient Perspectives of Health System Barriers to Accessing Care for Hidradenitis Suppurativa: A Qualitative Study.** *JAMA dermatology*
  Barnes, L. A., Shukla, N., Paul, M., de Vere Hunt, I., Halley, M. C., Linos, E., Naik, H. B.
  2023
- **Qualitative exploration of melanoma awareness in black people in the USA.** *BMJ open*
  de Vere Hunt, I., Owen, S., Amuzie, A., Nava, V., Tomz, A., Barnes, L., Robinson, J. K., Lester, J., Swetter, S., Linos, E.
  2023; 13 (1): e066967
- **Autoantibodies present in Hidradenitis suppurativa correlate with disease severity and promote release of proinflammatory cytokines in macrophages.** *The Journal of investigative dermatology*
  Carmona-Rivera, C., O'Neil, L. J., Patino-Martinez, E., Shipman, W. D., Zhu, C., Li, Q., Kerns, M. L., Barnes, L. A., Caffrey, J. A., Kang, S., Kaplan, M. J., Okoye, G. A., Byrd, et al
  2021
- **Prrx1 Fibroblasts Represent a Pro-fibrotic Lineage in the Mouse Ventral Dermis.** *Cell reports*
  Leavitt, T., Hu, M. S., Borrelli, M. R., Januszyk, M., Garcia, J. T., Ransom, R. C., Mascharak, S., desJardins-Park, H. E., Litzenburger, U. M., Walmsley, G. G., Marshall, C. D., Moore, A. L., Duoto, et al
  2020; 33 (6): 108356
- **Delivery of monocyte lineage cells in a biomimetic scaffold enhances tissue repair.** *JCI insight*
  Hu, M. S., Walmsley, G. G., Barnes, L. A., Weiskopf, K. n., Rennert, R. C., Duscher, D. n., Januszyk, M. n., Maan, Z. N., Hong, W. X., Cheung, A. T., Leavitt, T. n., Marshall, C. D., Ransom, et al
  2017; 2 (19)
- **Examining Differential Rater Functioning and Bias in the Holistic Review of Residency Applications.** *Journal of graduate medical education*
  Barnes, L. A., Sebok-Syer, S. S., Wind, S. A., Nord, K. M., Laidlaw, K., Bailey, E. E.
  2026; 18 (3): 317-325
- **Antibiotic, hormonal/metabolic, and retinoid therapies for hidradenitis suppurativa.** *Journal of the American Academy of Dermatology*
  Fonjungo, F. E., Barnes, L. A., Aleshin, M. A.
  2024; 91 (6S): S37-S41
- **In-office Procedures for Dermatologists Managing Hidradenitis Suppurativa** *CURRENT DERMATOLOGY REPORTS*
  Gomez, J., Fonjungo, F., Chen, S. X., Aleshin, M. A., Naik, H. B., Wadhera, A., Sayed, C. J., Barnes, L. A.
  2024
- **Smoking Cessation and Hidradenitis Suppurativa: Advances and Treatment Gaps.** *JAMA dermatology*
  Charrow, A., Barnes, L. A.

2024

- **Analysing common topics of secure patient messages in hidradenitis suppurativa: a text-embedding and natural language-processing approach.** *The British journal of dermatology*
  Chen, M. L., Kim, J., Naik, H. B., Aleshin, M. A., Sarin, K. Y., Barnes, L. A., Linos, E.
  2024

- **Assessment of correctness, content omission, and risk of harm in large language model responses to dermatology continuing medical education questions.** *The Journal of investigative dermatology*
  Cai, Z. R., Chen, M. L., Kim, J., Novoa, R. A., Barnes, L. A., Beam, A., Linos, E.
  2024

- **Longitudinal remote monitoring of hidradenitis suppurativa: a pilot study.** *The British journal of dermatology*
  Fonjungo, F. E., Barnes, L. A., Cai, Z. R., Naik, H. B., Eid, E. S., Aleshin, M. A., Nava, V., Johnson, T., Chren, M., Linos, E.
  2023

- **Disease Complications** *Hidradenitis Suppurativa Patient Guide*
  Gomez, J., Barnes, L., Aleshin, M.
  2023

- **Hidradenitis Suppurativa in Sexual and Gender Minorities: A Review and Considerations for Providers.** *Journal of the American Academy of Dermatology*
  Gomez, J., Barnes, L. A., Yost, J. M., Gordon, J., Ginsberg, B. A., Aleshin, M.
  2022

- **The sunscreen for kindergarteners (SKIN) study trial protocol.** *Contemporary clinical trials*
  Lee, G. H., Bae, G. H., Barnes, L. A., Pol-Rodriguez, M. M., Ransohoff, K. J., Nord, K. M., Lu, Y., Cannell, B., Weitlauf, J. C.
  2021: 106480

- **Stage-dependent autoantibodies and promotion of proinflammatory cytokines in hidradenitis suppurativa**
  Carmona-Rivera, C., O'Neil, L. J., Patino, E., Shipman, W. D., Zhu, C., Li, Q., Kerns, M. L., Barnes, L. A., Kaplan, M. J., Okoye, G. A., Byrd, A. S.
  WILEY.2021: 46-47

- **Doxycycline Reduces Scar Thickness and Improves Collagen Architecture** *ANNALS OF SURGERY*
  Moore, A. L., desJardins-Park, H. E., Duoto, B. A., Mascharak, S., Murphy, M. P., Irizarry, D. M., Foster, D. S., Jones, R. E., Barnes, L. A., Marshall, C. D., Ransom, R. C., Wernig, G., Longaker, et al
  2020; 272 (1): 183–93

- **Friend or foe: Elevated sera levels of IgM autoantibodies targeting hair follicle components detected in patients with Hidradenitis Suppurativa**
  Kerns, M. L., Carmona-Rivera, C., Zhu, C., Li, Q., Shipman, W. D., Barnes, L. A., Kaplan, M. J., Okoye, G. A., Byrd, A. S.
  ELSEVIER SCIENCE INC.2020: S99

- **Specimen Collection for Translational Studies in Hidradenitis Suppurativa.** *Scientific reports*
  Byrd, A. S., Dina, Y., Okoh, U. J., Quartey, Q. Q., Carmona-Rivera, C., Williams, D. W., Kerns, M. L., Miller, R. J., Petukhova, L., Naik, H. B., Barnes, L. A., Shipman, W. D., Caffrey, et al
  2019; 9 (1): 12207

- **Sarcopenia Is a Risk Factor for Infection for Patients Undergoing Abdominoperineal Resection and Flap-based Reconstruction.** *Plastic and reconstructive surgery. Global open*
  Miller, T. J., Sheckter, C. C., Barnes, L. A., Li, A. Y., Momeni, A.
  2019; 7 (7): e2343

- **Sarcopenia Is a Risk Factor for Infection for Patients Undergoing Abdominoperineal Resection and Flap-based Reconstruction** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*
  Miller, T. J., Sheckter, C. C., Barnes, L. A., Li, A. Y., Momeni, A.
  2019; 7 (7)

- **Sex and Racial/Ethnic Diversity of US Medical Students and Their Exposure to Dermatology Programs** *JAMA DERMATOLOGY*
  Barnes, L. A., Bae, G. H., Nambudiri, V. E.
  2019; 155 (4): 490–91

- **Lessons learned from the development of a hidradenitis suppurativa xenograft mouse model.** *Clinical and experimental dermatology*
  Quartey, Q. Q., Miller, R. J., Pinsker, B. L., Okoh, U. J., Shipman, W. D., George, B. A., Nwizu, C. C., Barnes, L. A., Kerns, M. L., Caffrey, J. A., Aliu, O. n., Brown, I. D., Succaria, et al
  2019

- **Doxycycline Reduces Scar Thickness and Improves Collagen Architecture.** *Annals of surgery*
  Moore, A. L., desJardins-Park, H. E., Duoto, B. A., Mascharak, S., Murphy, M. P., Irizarry, D. M., Foster, D. S., Jones, R. E., Barnes, L. A., Marshall, C. D., Ransom, R. C., Wernig, G., Longaker, et al
  2018

- **Pachydermodactyly: Case report including clinical and histopathologic diagnostic pitfalls** *JOURNAL OF CUTANEOUS PATHOLOGY*
  Barnes, L. A., Bae, G. H., Lewis, M. A., Rieger, K. E.
  2018; 45 (12): 949–53

- **Acta2, Tnc, and Col24a1 Expression Are Associated with Abdominal Adhesion Formation**
  Marshall, C. D., Foster, D. S., Ransom, R. C., Manjunath, A., Gulati, G., Hu, M. S., Moore, A. L., Barnes, L. A., Longaker, M. T.
  ELSEVIER SCIENCE INC.2018: E128

- **Engrailed1-Positive Fibroblasts May Modulate Transcription of the TGF-beta Pathway in the Transition from Scarless Healing to Scarring Phenotype**
  Moore, A. L., Marshall, C. D., Des Jardins-Park, H. E., Duoto, B. A., Mascharak, S., Barnes, A., Ransom, R. C., Hu, M. S., Lorenz, H., Longaker, M. T.
  ELSEVIER SCIENCE INC.2018: E221–E222

- **Pachydermodactyly: case report including clinical and histopathologic diagnostic pitfalls.** *Journal of cutaneous pathology*
  Barnes, L. A., Bae, G. H., Lewis, M. A., Rieger, K. E.
  2018

- **Determining the impact of sarcopenia on postoperative complications after ventral hernia repair.** *Journal of plastic, reconstructive & aesthetic surgery : JPRAS*
  Barnes, L. A., Li, A. Y., Wan, D. C., Momeni, A.
  2018; 71 (9): 1260–68

- **Mechanical Forces in Cutaneous Wound Healing: Emerging Therapies to Minimize Scar Formation** *ADVANCES IN WOUND CARE*
  Barnes, L. A., Marshall, C. D., Leavitt, T., Hu, M. S., Moore, A. L., Gonzalez, J. G., Longaker, M. T., Gurtner, G. C.
  2018; 7 (2): 47–56

- **Cutaneous Scarring: Basic Science, Current Treatments, and Future Directions** *ADVANCES IN WOUND CARE*
  Marshall, C. D., Hu, M. S., Leavitt, T., Barnes, L. A., Lorenz, H., Longaker, M. T.
  2018; 7 (2): 29–45

- **Scarless wound healing: Transitioning from fetal research to regenerative healing.** *Wiley interdisciplinary reviews. Developmental biology*
  Moore, A. L., Marshall, C. D., Barnes, L. A., Murphy, M. P., Ransom, R. C., Longaker, M. T.
  2018; 7 (2)

- **Analysis of Scar Forming Fibroblasts Reveals Distinct Changes in Epigenetic Accessibility During Times of Phenotypic Transition** *Plast Reconstr Surg Glob Open*
  Moore, A., Litzenburger, U., Marshall, C., et al
  2018

- **Beyond Antibiotics: Local Doxycycline Administration Reduces Scarring and Improves Wound Healing by Modulating Scarring Fibroblast Behavior** *Plast Reconstr Surg Glob Open*
  Des Jardins-Park, H. E., Moore, A. L., Murphy, M. P., et al
  2018

- **Cellular Mechanisms Underlying Regeneration in Mandibular Distraction Osteogenesis**
  Ransom, R. C., Leavitt, T., Murphy, M. P., Marecic, O., Lopez, M., Marshall, C. D., Barnes, L. A., Wan, D. C., Chan, C. K., Longaker, M. T.
  ELSEVIER SCIENCE INC.2017: E143–E144

- **Epigenetic Analysis of Scar Forming Fibroblasts Reveals Key Differences in Genes Associated with Fibrosis**
  Moore, A. L., Marshall, C. D., Litzenburger, U., Barnes, L., Ransom, R., Hu, M., Leavitt, T., Chang, H. Y., Longaker, M. T.

ELSEVIER SCIENCE INC.2017: S200–S201

- **Sanativo Wound Healing Product Does Not Accelerate Reepithelialization in a Mouse Cutaneous Wound Healing Model.** *Plastic and reconstructive surgery*
  Marshall, C. D., Hu, M. S., Leavitt, T., Barnes, L. A., Cheung, A. T., Malhotra, S., Lorenz, H. P., Delp, S. L., Quake, S. R., Longaker, M. T.
  2017; 139 (2): 343-352
- **Rapid Isolation of BMPR-IB plus Adipose-Derived Stromal Cells for Use in a Calvarial Defect Healing Model** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
  Marshall, C. D., Zielins, E. R., Brett, E. A., Blackshear, C. P., Hu, M. S., Leavitt, T., Barnes, L. A., Lorenz, H. P., Longaker, M. T., Wan, D. C.
  2017
- **Excess Dermal Tissue Remodeling In Vivo: Does It Settle?** *Plastic and reconstructive surgery*
  Leavitt, T., Hu, M. S., Zielins, E. R., Barnes, L. A., Marshall, C. D., Wan, D. C., Lorenz, H. P., Gurtner, G. C., Longaker, M. T.
  2017; 139 (2): 415e-424e
- **A Mouse Model of Mandibular Distraction Osteogenesis** *Plastic and Reconstructive Surgery*
  Ransom, R. C., Leavitt, T., Barnes, L. A., et al
  2017
- **Intestinal Smooth Muscle Cell Migration May Contribute to Abdominal Adhesion Formation**
  Marshall, C. D., Hu, M. S., Leavitt, T., Ransom, R. C., Barnes, L. A., Lorenz, H., Longaker, M. T.
  ELSEVIER SCIENCE INC.2016: E106–E107
- **Scarless wound healing: finding the right cells and signals.** *Cell and tissue research*
  Leavitt, T., Hu, M. S., Marshall, C. D., Barnes, L. A., Lorenz, H. P., Longaker, M. T.
  2016; 365 (3): 483-493
- **Creation of Abdominal Adhesions in Mice** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
  Marshall, C. D., Hu, M. S., Leavitt, T., Barnes, L. A., Cheung, A. T., Malhotra, S., Lorenz, H. P., Longaker, M. T.
  2016
- **SANATIVO WORSENS MURINE SKIN WOUND HEALING**
  Marshall, C. D., Hu, M. S., Leavitt, T., Barnes, L. A., Longaker, M. T.
  WILEY-BLACKWELL.2016: A17
- **ACTIVATION OF HIF BY SMALL MOLECULE INHIBITORS OF PHD2 IMPROVES HEALING OF CUTANEOUS WOUNDS AND CALVARIAL DEFECTS**
  Hu, M. S., Barnes, L. A., Hong, W., Xie, M., Tang, S., Rennert, R. C., Gurtner, G. C., Giaccia, A. J., Lorenz, H. P., Ding, S., Longaker, M. T.
  WILEY-BLACKWELL.2016: A11
- **IN VIVO REMODELING OF EXCESS TISSUE DEFORMITIES FOLLOWING PROLONGED MECHANICAL DEFORMATION**
  Leavitt, T., Hu, M. S., Barnes, L. A., Zielins, E. R., Marshall, C. D., Wan, D. C., Gurtner, G. C., Lorenz, H., Longaker, M. T.
  WILEY-BLACKWELL.2016: A15
- **Stem cells and chronic wound healing: state of the art** *CHRONIC WOUND CARE MANAGEMENT AND RESEARCH*
  Leavitt, T., Hu, M. S., Marshall, C. D., Barnes, L. A., Longaker, M. T., Lorenz, H.
  2016; 3: 7–27
- **Activation of HIF by Small Molecule Inhibitors ofPhd2 Improves Healing of Cutaneous Wounds and Calvarial Defects** *Plastic and Reconstructive Surgery*
  Hu, M. S., Barnes, L. A., Hong, W., et al
  2016
- **Generation of a Novel Scaffold for In Vivo Polarization of Therapeutic Macrophages and Delivery of IL-10 to Improve Cutaneous Wound Healing** *Plast Reconstr Surg*
  Barnes, L. A., Hu, M. S., Cheung, A. T., et al
  2016
- **Effects of multidisciplinary prenatal care and delivery mode on gastroschisis outcomes** *JOURNAL OF PEDIATRIC SURGERY*
  Synder, C. W., Biggio, J. R., Brinson, P., Barnes, L. A., Bartle, D. T., Georgeson, K. E., Muensterer, O. J.

2011; 46 (1): 86-89