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Bio

BIO

Karim Sallam, MD, is trained in Cardiovascular Medicine and Advanced Heart Failure.

CLINICAL FOCUS

- Cardiovascular Medicine
- Advanced Heart Failure
- Advanced Heart Failure and Transplant Cardiology

ACADEMIC APPOINTMENTS

- Assistant Professor-Univ Med Line, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

HONORS AND AWARDS

- Highest Performance in Medicine, James D. Heard Junior Prize (2006)
- Compassion and Humanism, Jeffrey Alan Grey Memorial Prize (2006)
- Empathetic, Sensitive and Respectful Behavior, Leonard Tow Humanism in Medicine Student Award (2006)
- Exemplary Professionalism Award, Stanford Medicine Residency Program (2007/2008)

PROFESSIONAL EDUCATION

- Board Certification: Advanced Heart Failure and Transplant Cardiology, American Board of Internal Medicine (2024)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2024)
- Board Certification: Adult Echocardiography, National Board of Echocardiography (2018)
- Fellowship, Stanford Hospital and Clinics , Advanced Heart Failure and Transplant (2015)
- Fellowship, Stanford Hospital and Clinics , Cardiovascular Medicine (2014)
- Residency, Stanford Hospital and Clinics , Internal Medicine (2009)

- Medical Education: University of Pittsburgh Medical Center (2006) PA

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Publications

PUBLICATIONS

- **Systemic Inflammation and Adverse Heart Failure Outcomes: Insights From the Veterans Affairs Health Care System.** *JACC. Advances*
  Sandhu, A. T., Furst, A., Varshney, A. S., Sallam, K., Hsiao, S., Gromovsky, A., Khachatourian, K. W., Din, N., Skaar, J. R., Tonnu-Mihara, I.
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- **Cell Village Captures Populational Heterogeneity of Sunitinib Cardiotoxicity.** *Circulation research*
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  2026

- **Gut microbiome shifts in chronic systolic heart failure are associated with disease severity and clinical improvement.** *Nature cardiovascular research*
  Mamic, P., Shi, H., Zhou, W., Bararpour, N., Contrepois, K., Park, H., Avina, M., Schüssler-Fiorenza Rose, S. M., Brooks, A. W., Kotaka, M., Heidenreich, P. A., Khush, K. K., Fowler, et al
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- **Generation of two homozygous iPSC lines carrying variants of uncertain significance in LMNA associated with cardiomyopathy.** *Stem cell research*
  Liu, L., Wu, D., Manhas, A., Noishiki, C., Tripathi, D., Sadat, S., Bharucha, N., Karakikes, I., Sallam, K., Sayed, N.
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- **RUNX1-driven endothelial-to-mesenchymal transition contributes to remodelling in LMNA cardiomyopathy.** *European heart journal*
  Wu, D., Tripathi, D., Manhas, A., Noishiki, C., Liu, L., Wu, C. A., Venkateshappa, R., Zhang, H., Ren, L., Thomas, D., Nalbandian, M., Limbu, L., DaValle, et al
  2026

- **Single-cell and spatial transcriptomics identify immune-stromal interactions in cardiac allograft vasculopathy.** *Nature cardiovascular research*
  Owen, M. C., Li, D. Y., Shin, H., Gu, W., Parvathaneni, A., Kadyrov, F. F., Wang, X., Sticco-Ivins, M., Bonnici, G., Nelson, S. L., Dun, H., Hyacinth, S., Giangrasso, et al
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- **Generation of an induced pluripotent stem cell line from a patient with Loeys-Dietz syndrome.** *Stem cell research*
  Liu, L., Manhas, A., Noishiki, C., Wu, D., Tripathi, D., Turbes, N., Sallam, K., Lee, J. T., Sayed, N.
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- **Potential For Missed Heart Failure Diagnosis Among Those High B-type Natriuretic Peptide Values**
  Heidenreich, P., Kalwani, N., Sallam, K., Hsia, S., Tisdale, R., Dejong, C., Sandhu, A.
  CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2026

- **Systemic Inflammation Associated With Adverse Heart Failure Outcomes: Insights From The Veterans Affairs Healthcare System**
  Sandhu, A. T., Furst, A., Varshney, A., Sallam, K., Gromovsky, A., Khachatourian, K., Din, N., Skaar, J., Tonnu-Mihara, I.
  CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2026

- **Patient-Reported Health Status Among Patients With Heart Failure With Improved Ejection Fraction.** *Journal of the American Heart Association*
  Vasti, E., Zheng, J., Kalwani, N. M., DeJong, C., Bhatt, A. S., Ambrosy, A. P., Din, N., Nallamshetty, S., Sallam, K., Heidenreich, P., Sandhu, A. T.
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- **Multiscale profiling of tyrosine kinase inhibitor cardiotoxicity reveals mechanosensitive ion channel PIEZO1 as cardioprotective.** *Science translational medicine*
  Manhas, A., Liu, Y., Noishiki, C., Wu, D., Tripathi, D., Mirza, S., Thomas, D., Liu, L., Guha, A., Nguyen, P. K., Chen, I. Y., Chitalia, V., Cheng, et al
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- **Promoting Autophagy Mitigates Stress-Induced Remodeling in Patient iPSC-CMs with the Phospholamban R9C Mutation.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
  Yu, Q., Shen, Y., Barndt, R. J., Sallam, K., Tang, Y., Brown, C. E., Li, X., Chan, S. Y., Wu, J. C., Liu, Q., Wu, H.
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- **Single Cell and Spatial Transcriptomics Identify Novel Immune-Stromal Interactions in Cardiac Allograft Vasculopathy.** *Research square*
  Owen, M. C., Li, D. Y., Shin, H., Gu, W., Parvathaneni, A., Kadyrov, F. F., Wang, X., Sticco-Ivins, M., Bonnici, G., Nelson, S. L., Dun, H., Hyacinth, S., Cain, et al
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- **Generation of an induced pluripotent stem cell line from a patient with Varicose veins.** *Stem cell research*
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- **Generation of two induced pluripotent stem cell lines from dilated cardiomyopathy patients harbouring TTN mutations.** *Stem cell research*
  Tan, R., Chen, Y. I., Zha, Y., Herron, T., Haddad, F., Sallam, K., Wu, J. C.
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- **Immunosuppression Drugs Exhibit Differential Effects on Endothelial Cell Function.** *Journal of vascular research*
  Elezaby, A., Dexheimer, R., Wu, D., Chan, S. Y., Tacco, I. R., Chen, I. Y., Sayed, N., Sallam, K.
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- **Generation of an induced pluripotent stem cell line from a malignant melanoma patient who developed the immune checkpoint inhibitor-related myasthenia gravis, myositis, and myocarditis overlap syndrome.** *Stem cell research*
  Huynh, D. T., Noishiki, C., Lai, J., Yarahmadi, P., Le, T., Tripathi, D., Tacco, I. R., Manhas, A., Sallam, K., Chen, I. Y., Sayed, N., Nguyen, P. K.
  2025; 87: 103797

- **Alteplase Purge Solution for Impella 5.5 Ventricular Assist Device Purge System Occlusion: Case Report and Review of the Literature.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Wang, B., Zheng, J., Silva, M. D., Shi, Z., Fong, J., Diep, C., Hiesinger, W., Sallam, K.
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- **Predicted Mortality and Cardiology Follow-Up Following Heart Failure Hospitalizations Among Veterans Health Administration Patients.** *Journal of cardiac failure*
  Tisdale, R. L., Cao, F., Skye, M., Vardeny, O., Sallam, K., Kalwani, N., Hsaio, S., Varshney, A. S., Heidenreich, P. A., Sandhu, A. T.
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- **Generation of induced pluripotent stem cell line from a patient with long COVID.** *Stem cell research*
  Wu, D., Manhas, A., Noishiki, C., Tripathi, D., Liu, L., Turbes, N., Thomas, D., Sallam, K., Lee, J. T., Sayed, N.
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- **Generation and characterization of three induced pluripotent stem cell lines for modeling coronary artery vasospasm.** *Stem cell research*
  Ross Tacco, I., Olshausen, J., Chan, T. Y., Turbes, N., Hung, M. Y., Yeh, C. T., Nguyen, P. K., Sallam, K., Sayed, N., Chen, I. Y.
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- **CCL2-mediated endothelial injury drives cardiac dysfunction in long COVID.** *Nature cardiovascular research*
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- **Validating the Association Between Composite Metrics of Guideline-Directed Medical Therapy (GDMT) and Clinical Outcomes for Patients with Heart Failure with Reduced Ejection Fraction (HFrEF).** *Journal of cardiac failure*
  Steverson, A., Calma, J., Hsiao, S., Sallam, K., Varshney, A. S., Golbus, J. R., Heidenreich, P. A., Sandhu, A. T.
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- **One-year real-world experience with mavacamten and its physiologic effects on obstructive hypertrophic cardiomyopathy** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
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- **One-year real-world experience with mavacamten and its physiologic effects on obstructive hypertrophic cardiomyopathy.** *Frontiers in cardiovascular medicine*
  Kim, D. S., Chu, E. L., Keamy-Minor, E. E., Paranjpe, I. D., Tang, W. L., O'Sullivan, J. W., Desai, Y. B., Liu, M. B., Munsey, E., Hecker, K., Cuenco, I., Kao, B., Bacolor, et al
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- **Generation of two iPSC lines from dilated cardiomyopathy patients with pathogenic variants in the SCN5A gene.** *Stem cell research*
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  Manhas, A., Tripathi, D., Noishiki, C., Wu, D., Liu, L., Sallam, K., Lee, J. T., Fukaya, E., Sayed, N.
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- **Artificial intelligence predictive analytics in heart failure: results of the pilot phase of a pragmatic randomized clinical trial.** *Journal of the American Medical Informatics Association : JAMIA*
  Sideris, K., Weir, C. R., Schmalfuss, C., Hanson, H., Pipke, M., Tseng, P. H., Lewis, N., Sallam, K., Bozkurt, B., Hanff, T., Schofield, R., Larimer, K., Kyriakopoulos, et al
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- **Almanac - Retrieval-Augmented Language Models for Clinical Medicine.** *NEJM AI*
  Zakka, C., Shad, R., Chaurasia, A., Dalal, A. R., Kim, J. L., Moor, M., Fong, R., Phillips, C., Alexander, K., Ashley, E., Boyd, J., Boyd, K., Hirsch, et al
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- **Uptake of sodium-glucose cotransporter-2 inhibitors in hospitalized patients with heart failure: insights from the veterans affairs healthcare system.** *Journal of cardiac failure*
  Varshney, A. S., Calma, J., Kalwani, N. M., Hsiao, S., Sallam, K., Cao, F., Din, N., Schirmer, J., Bhatt, A. S., Ambrosy, A. P., Heidenreich, P., Sandhu, A. T.
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- **Generation of induced pluripotent stem cell line from a patient suffering from arterial calcification due to deficiency of CD73 (ACDC).** *Stem cell research*
  Tripathi, D., Manhas, A., Noishiki, C., Wu, D., Adkar, S., Sallam, K., Fukaya, E., Leeper, N. J., Sayed, N.
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- **Generation of two induced pluripotent stem cell lines from hereditary amyloidosis patients with polyneuropathy carrying heterozygous transthyretin (TTR) mutation.** *Stem cell research*
  Melesio, J., Bonilauri, B., Li, A., Pang, P. D., Liao, R., Witteles, R. M., Wu, J. C., Sallam, K.
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- **Generation of two induced pluripotent stem cell lines from patients with cardiac amyloidosis carrying heterozygous transthyretin (TTR) mutation** *STEM CELL RESEARCH*
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- **Continuous Wearable Monitoring Analytics To Improve Outcomes In Heart Failure: Vanguard Phase Results And Study Design Of The Randomized Phase Of Link-HF2 Multicenter Study**
  Sideris, K., Weir, C., Schmalfuss, C., Bozkurt, B., Lewis, N., Sallam, K., Hanff, T., Schofield, R., Pipke, M., Larimer, K., Kyriakopoulos, C. P., Davis, C., Beauchamp, et al
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- **Generation of two induced pluripotent stem cell lines from dilated cardiomyopathy patients carrying heterozygous FLNC mutations.** *Stem cell research*
  Kojic, A., Kim, H., Guevara, J. V., Ravada, S., Sallam, K., Wu, J. C.
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- **Generation of two induced pluripotent stem cell lines carrying the phospholamban R14del mutation for modeling ARVD/C.** *Stem cell research*
  Vera, C. D., Manhas, A., Shenoy, S. P., Wheeler, M. T., Sallam, K., Wu, J. C.
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- **Modeling Effects of Immunosuppressive Drugs on Human Hearts Using Induced Pluripotent Stem Cell-Derived Cardiac Organoids and Single-Cell RNA Sequencing.** *Circulation*
  Sallam, K., Thomas, D., Gaddam, S., Lopez, N., Beck, A., Beach, L., Rogers, A. J., Zhang, H., Chen, I. Y., Ameen, M., Hiesinger, W., Teuteberg, J. J., Rhee, et al
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- **Heterozygous LMNA mutation-carrying iPSC lines from three cardiac laminopathy patients.** *Stem cell research*
  Cho, S., Lee, C., Lai, C., Zhuge, Y., Haddad, F., Fowler, M., Sallam, K., Wu, J. C.
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- **Cardiovascular effects of immunosuppression agents.** *Frontiers in cardiovascular medicine*
  Elezaby, A., Dexheimer, R., Sallam, K.
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- **Generation of two induced pluripotent stem cell lines from Brugada syndrome affected patients carrying SCN5A mutations.** *Stem cell research*
  Belbachir, N., Lai, C., Rhee, J., Zhuge, Y., Perez, M. V., Sallam, K., Wu, J. C.
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- **Coronary Artery Vasospasm Requiring Cardiac Autotransplantation Yet Controlled With Tobacco.** *JACC. Case reports*
  Tran, M. V., Marceau, E., Liu, Y., Sallam, K., Medina, P., Liu, C., Sayed, N., Muller, M. D., Liang, D. H., Chen, I. Y.
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- **Generation of three induced pluripotent stem cell lines from hypertrophic cardiomyopathy patients carrying MYH7 mutations.** *Stem cell research*
  Cao, X., Jahng, J. W., Lee, C., Zha, Y., Wheeler, M. T., Sallam, K., Wu, J. C.
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- **A protocol for transdifferentiation of human cardiac fibroblasts into endothelial cells via activation of innate immunity.** *STAR protocols*
  Liu, C., Medina, P., Thomas, D., Chen, I. Y., Sallam, K., Sayed, D., Sayed, N.
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- **The Unfolded Protein Response as a Compensatory Mechanism and Potential Therapeutic Target in PLN R14del Cardiomyopathy.** *Circulation*
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- **Generation of three induced pluripotent stem cell lines, SCVIi003-A, SCVIi004-A, SCVIi005-A, from patients with ARVD/C caused by heterozygous mutations in the PKP2 gene.** *Stem cell research*
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- **Genome Editing of Induced PluripotentStem Cells to Decipher CardiacChannelopathy Variant.** *Journal of the American College of Cardiology*
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  Aymami, M., Haddad, F., Amsallem, M., Wheeler, M., Moneghetti, K., Adams, J., Verhoye, J., Sallam, K., Woo, Y., Ha, R., Banerjee, D.
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- **Restoration of Impaired Diastolic Function in Hypertrophic Cardiomyopathy Induced Pluripotent Stem Cell-derived Cardiomyocytes by Re-balancing the Calcium Homeostasis**
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  Liang, P., Sallam, K., Wu, H., Li, Y., Itzhaki, I., Garg, P., Zhang, Y., Vermglinchan, V., Lan, F., Gu, M., Gong, T., Zhuge, Y., He, et al
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