

# Stanford

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## Kevin M. Alexander, MD, FACC, FHFSA

Assistant Professor of Medicine (Cardiovascular Medicine) at the Stanford University Medical Center

Medicine - Cardiovascular Medicine

### CLINICAL OFFICES

- **Cardiovascular Medicine**

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### Bio

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#### BIO

Dr. Alexander is an advanced heart failure-trained cardiologist. He is also an Assistant Professor of Cardiovascular Medicine at Stanford University School of Medicine.

Dr. Alexander specializes in the management of advanced heart failure and transplant cases, seeing a wide range of patients. He also has an active research laboratory, studying various forms of heart failure.

Dr. Alexander has expertise in diagnosing and treating transthyretin cardiac amyloidosis, a critical yet underdiagnosed cause of heart failure among African Americans and the elderly. He is conducting extensive research to enhance our understanding of this condition, with grant support from the National Institutes of Health and American Heart Association, among other sources.

#### CLINICAL FOCUS

- Heart Failure
- Amyloidosis
- Heart Transplantation
- Mechanical Circulatory Support
- Sarcoidosis

#### ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

## HONORS AND AWARDS

- Sarnoff Cardiovascular Research Fellowship, Sarnoff Cardiovascular Foundation (2009-2011)
- Gertrude M and Ezra M. Eisen Prize for Cardiovascular Research, University of Pennsylvania (2011)
- ASPIRE Transthyretin Amyloidosis Competitive Research Grant, Pfizer (2017)
- Carl Storm Underrepresented Minority Fellowship, Gordon Research Conference (2017)
- Thomas W. Smith Fellowship in Heart Failure, Brigham and Women's Hospital (2017)
- Loan Repayment Program Award, National Institutes of Health (2017-2019, 2019-2020)
- Presidential Travel Award, International Society of Amyloidosis (2018)
- Fellow, American College of Cardiology (2019-)
- Harold Amos Medical Faculty Development Program Award, American Heart Association (2019-2023)
- Stanford KL2 Mentored Career Development Program Award, National Institutes of Health (2020-2022)
- Fellow, Heart Failure Society of America (2021-)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Alumni Committee, Sarnoff Cardiovascular Research Foundation (2017 - 2019)
- Co-Chair, Diversity and Inclusion Committee, California Chapter, American College of Cardiology (2018 - present)
- Editorial Board, Circulation Research (2019 - present)
- Member, BCVS Early Career Committee, American Heart Association (2020 - present)
- Member, Scientific Advisory and Coordinating Committee, American Heart Association (2021 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Advanced Heart Failure and Transplant Cardiology, American Board of Internal Medicine (2020)
- Board Certification, American Board of Internal Medicine , Advanced Heart Failure and Transplant Cardiology (2020)
- Board Certification, American Board of Internal Medicine , Cardiovascular Disease (2017)
- Board Certification, American Board of Internal Medicine , Internal Medicine (2014)
- Fellowship, Stanford Health Care , Advanced Heart Failure and Transplant Cardiology (2019)
- Fellowship, Brigham and Women's Hospital , Cardiovascular Medicine (2017)
- Residency, Johns Hopkins Hospital , Internal Medicine (2014)
- M.D., University of Pennsylvania (2011)
- B.S., Yale University , Molecular Biophysics and Biochemistry (2006)

## LINKS

- Twitter: <https://twitter.com/KMAlexanderMD>
- Stanford Amyloid Center: <http://med.stanford.edu/amyloidcenter.html>
- Stanford Cardiovascular Institute: <http://med.stanford.edu/cvi.html>

## Research & Scholarship

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### CLINICAL TRIALS

- A Research Study to Look at How a New Medicine Called NNC6019-0001 Works and How Safe it is for People Who Have Heart Disease Due to Transthyretin (TTR) Amyloidosis, Recruiting
- CARDIO-TTRansform: A Study to Evaluate the Efficacy and Safety of Eplontersen (Formerly Known as ION-682884, IONIS-TTR-LRx and AKCEA-TTR-LRx) in Participants With Transthyretin-Mediated Amyloid Cardiomyopathy (ATTR CM), Recruiting

- Daratumumab-SC for Highly Sensitized Patients Awaiting Heart Transplantation, Recruiting
- HELIOS-B: A Study to Evaluate Vutrisiran in Patients With Transthyretin Amyloidosis With Cardiomyopathy, Recruiting
- MitraClip REPAIR MR Study, Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Gracia Fahed, Hiroki Kitakata, Xiaokang Wu

## Publications

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### PUBLICATIONS

- **TEMPORARY REMOVAL: Heart Failure Epidemiology and Outcomes Statistics: A Report of the Heart Failure Society of America.** *Journal of cardiac failure*  
Bozkurt, B., Ahmad, T., Alexander, K., Baker, W. L., Bosak, K., Breathett, K., Fonarow, G. C., Heidenreich, P., Ho, J. E., Hsieh, E., Ibrahim, N. E., Jones, L. M., Khan, et al  
2023
- **Exploring Race and Sex Differences in Cardiac Sarcoidosis: "Dispare" No More.** *Journal of cardiac failure*  
Gupta, R., Bermudez, F., Alexander, K. M., Sheikh, F. H.  
2023
- **Almanac: Retrieval-Augmented Language Models for Clinical Medicine.** *Research square*  
Zakka, C., Chaurasia, A., Shad, R., Dalal, A. R., Kim, J. L., Moor, M., Alexander, K., Ashley, E., Boyd, J., Boyd, K., Hirsch, K., Langlotz, C., Nelson, et al  
2023
- **Implications of Extra-cardiac Disease in Patient Selection for Heart Transplantation: Considerations in Cardiac Amyloidosis.** *Cardiac failure review*  
Punnoose, L. R., Siddiqi, H., Rosenthal, J., Kittleson, M., Witteles, R., Alexander, K.  
2023; 9: e01
- **Nurturing Diverse Generations of the Medical Workforce for Success With Authenticity: An Association of Black Cardiologists' Roundtable.** *Circulation. Cardiovascular quality and outcomes*  
Haynes, N. A., Johnson, M., Lewsey, S. C., Alexander, K. M., Anstey, D. E., Dillenburg, T., Njoroge, J. N., Gordon, D., Ofili, E. O., Yancy, C. W., Albert, M. A.  
2023: e009032
- **Effects of Body Mass Index on Presentation and Outcomes of COVID-19 among Heart Transplant and Left Ventricular Assist Device Patients: A Multi-Institutional Study.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Iyengar, A., Cohen, W., Han, J., Helmers, M., Kelly, J. J., Patrick, W., Moss, N., Molina, E. J., Sheikh, F. H., Houston, B. A., Tedford, R. J., Shore, S., Vorovich, et al  
2023; 69 (1): 43-49
- **Prevalence, mutational spectrum and clinical implications of clonal hematopoiesis of indeterminate potential in plasma cell dyscrasias.** *Seminars in oncology*  
Testa, S., Kumar, J., Goodell, A. J., Zehnder, J. L., Alexander, K. M., Sidana, S., Arai, S., Witteles, R. M., Liedtke, M.  
2022
- **High-Throughput Precision Phenotyping of Left Ventricular Hypertrophy With Cardiovascular Deep Learning.** *JAMA cardiology*  
Duffy, G., Cheng, P. P., Yuan, N., He, B., Kwan, A. C., Shun-Shin, M. J., Alexander, K. M., Ebinger, J., Lungren, M. P., Rader, F., Liang, D. H., Schnittger, I., Ashley, et al  
2022
- **Proteotoxicity and Autophagy in Neurodegenerative and Cardiovascular Diseases** *Biochemistry of Apoptosis and Autophagy*  
Alexander, K. M., Morgado, I., Liao, R.  
Springer.2022; 1: 219-237
- **Prevalence and Outcomes of p.Val142Ile TTR Amyloidosis Cardiomyopathy: A Systematic Review.** *Circulation. Genomic and precision medicine*

- Chandrashekar, P., Alhuneafat, L., Mannello, M., Al-Rashdan, L., Kim, M. M., Dungu, J., Alexander, K., Masri, A.  
2021: CIRCGEN121003356
- **Racial and Ethnic Disparities in Transthyretin Cardiac Amyloidosis.** *Current cardiovascular risk reports*  
Spencer-Bonilla, G., Njoroge, J. N., Pearson, K., Witteles, R. M., Aras, M. A., Alexander, K. M.  
2021; 15 (6)
  - **Coronavirus disease 2019 in heart transplant recipients: Risk factors, immunosuppression, and outcomes.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Genuardi, M. V., Moss, N., Najjar, S. S., Houston, B. A., Shore, S., Vorovich, E., Atluri, P., Molina, M., Chambers, S., Sharkoski, T., Hsich, E., Estep, J. D., Owens, et al  
2021
  - **MicroRNA-21 regulates right ventricular remodeling secondary to pulmonary arterial pressure overload.** *Journal of molecular and cellular cardiology*  
Chang, W., Fisch, S., Dangwal, S., Mohebbi, J., Fiedler, A. G., Chen, M., Hsu, C., Yang, Y., Qiu, Y., Alexander, K. M., Chen, F. Y., Liao, R.  
2021
  - **Challenges and the innovations in the care of advanced heart failure patients during COVID-19.** *Heart failure reviews*  
Yehya, A. n., Shah, K. S., Mitter, S. S., Ibrahim, N. E., Sperry, B. n., Shah, M. n., Chaudhry, S. P., Rajagopalan, N. n., Hernandez-Montfort, J. n., Mohan, R. n., Alexander, K. M., Sinha, S. n., Butler, et al  
2021
  - **Transthyretin Cardiac Amyloidosis in the Elderly-Tip of a Heart Failure Iceberg?** *JAMA cardiology*  
Alexander, K. M., Dorbala, S.  
2021
  - **Cardiac Amyloid Heart Disease in Racial/Ethnic Minorities: Focus on Transthyretin Amyloid Cardiomyopathy** *CARDIOVASCULAR DISEASE IN RACIAL AND ETHNIC MINORITY POPULATIONS, 2 EDITION*  
Alexander, K. M., Maurer, M. S., Fergus, I. V., Ferdinand, K. C., Taylor, J., Rodriguez, C. J.  
2021: 201-215
  - **Future Perspectives of Cardiovascular Biomarker Utilization in Cancer Survivors: A Scientific Statement From the American Heart Association.** *Circulation*  
Zaha, V. G., Hayek, S. S., Alexander, K. M., Beckie, T. M., Hundley, W. G., Kondapalli, L., Ky, B., Leger, K. J., Meijers, W. C., Moslehi, J. J., Shah, S. H.  
2021: CIR0000000000001032
  - **Mistaken Identity: Using Bone Scintigraphy to Diagnose Cardiac Amyloidosis in Patients With a Monoclonal Gammopathy** *JACC: CardioOncology*  
Nguyen, A. T., Alexander, K. M.  
2021; 3 (4): 594-597
  - **Electrocardiogram Characteristics and Prognostic Value in Light-Chain Amyloidosis: A Comparison With Cardiac Magnetic Resonance Imaging.** *Frontiers in cardiovascular medicine*  
Guo, X., Chen, Z., Wan, K., Song, R., Yang, T., Xu, Y., Zhang, Q., Alexander, K. M., Han, Y., Chen, Y.  
1800; 8: 751422
  - **Characteristics and Outcomes of COVID-19 in Patients on Left Ventricular Assist Device Support.** *Circulation. Heart failure*  
Birati, E. Y., Najjar, S. S., Tedford, R. J., Houston, B. A., Shore, S. n., Vorovich, E. n., Atluri, P. n., Urgo, K. n., Molina, M. n., Chambers, S. n., Escobar, N. n., Hsich, E. n., Estep, et al  
2021: CIRCHEARTFAILURE120007957
  - **Decoding the Nanoenvironment in Cardiac Amyloidosis Through Proteomics** *JACC: CARDIOONCOLOGY*  
Alexander, K. M., Jha, A., Liao, R.  
2020; 2 (4): 644-46
  - **High-Frequency Ultrasound Echocardiography to Assess Zebrafish Cardiac Function.** *Journal of visualized experiments : JoVE*  
Evangelisti, A., Schimmel, K., Joshi, S., Shah, K., Fisch, S., Alexander, K. M., Liao, R., Morgado, I.  
2020
  - **Bone Scintigraphy Imaging for Transthyretin Cardiac Amyloidosis: Still Much to Learn.** *JACC. Cardiovascular imaging*  
Alexander, K. M., Witteles, R. M.  
2020

- **Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction.** *Circulation*  
Schimmel, K. n., Jung, M. n., Foinquinos, A. n., San José, G. n., Beaumont, J. n., Bock, K. n., Grote-Levi, L. n., Xiao, K. n., Bär, C. n., Pfanne, A. n., Just, A. n., Zimmer, K. n., Ngoy, et al  
2020
- **Pulling at the heart: COVID-19, race/ethnicity and ongoing disparities.** *Nature reviews. Cardiology*  
Chin-Hong, P. n., Alexander, K. M., Haynes, N. n., Albert, M. A.  
2020
- **Serum high-density lipoprotein cholesterol serves as a prognostic marker for light-chain cardiac amyloidosis.** *International journal of cardiology*  
Yang, T. n., Wan, K. n., Song, R. n., Guo, X. n., Xu, Y. n., Wang, J. n., Zhang, Q. n., Alexander, K. M., Liao, R. n., Chen, Y. n.  
2020
- **Harnessing Cardiac Regeneration as a Potential Therapeutic Strategy for AL Cardiac Amyloidosis.** *Current cardiology reports*  
Joshi, S. n., Evangelisti, A. n., Liao, R. n., Alexander, K. M.  
2020; 22 (1): 1
- **Recipe for Success in Transthyretin Cardiomyopathy: Monoclonal Protein Rule Out, SPECT Imaging, and Genetic Testing.** *JACC. Cardiovascular imaging*  
Alexander, K. M., Masri, A. n.  
2020
- **Advances in the Diagnosis and Management of Transthyretin Amyloid Cardiomyopathy** *Curr Treat Options Cardio Med*  
Spencer-Bonilla, G., Alexander, K. M., Witteles, R. M.  
2020; 22 (45)
- **Outcomes in Patients With Cardiac Amyloidosis Undergoing Heart Transplantation.** *JACC. Heart failure*  
Barrett, C. D., Alexander, K. M., Zhao, H. n., Haddad, F. n., Cheng, P. n., Liao, R. n., Wheeler, M. T., Liedtke, M. n., Schrier, S. n., Arai, S. n., Weisshaar, D. n., Witteles, R. M.  
2020
- **Diagnosis and Treatment of Cardiac Amyloidosis Related to Plasma Cell Dyscrasias.** *Cardiology clinics*  
Alexander, K. M., Evangelisti, A., Witteles, R. M.  
2019; 37 (4): 487–95
- **Gene Signatures to Distinguish Amyloid Cardiomyopathy Risk in Multiple Myeloma Patients**  
Jha, A., Morgado, I., Lee, D. J., Alexander, K., Tsai, C., Schimmel, K., Ward, J., Witteles, R., Liedtke, M., Liao, R., Dangwal, S.  
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Prenatal Exposure of Cigarette Smoke Impacts Cardiac Regeneration**  
Schimmel, K., Morgado, I., Tsai, C., Evangelisti, A., Fisch, S., Ngoy, S., Lee, D., Dangwal, S., Alexander, K., Ward, J. E., Liao, R.  
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Management of Cardiac Amyloidosis: Do's and Don'ts.** *The Canadian journal of cardiology*  
Alexander, K. M., Witteles, R. M.  
2019
- **Trends and causes of hospitalizations in patients with amyloidosis.** *Amyloid : the international journal of experimental and clinical investigation : the official journal of the International Society of Amyloidosis*  
Patil, N. n., Arora, S. n., Qamar, A. n., Strassle, P. D., Alexander, K. M., Fatima, A. n., Maurer, M. S., Grodin, J. L., Pandey, A. n.  
2019: 1–2
- **Emerging Therapies for Transthyretin Cardiac Amyloidosis.** *Current treatment options in cardiovascular medicine*  
Alexander, K. M., Evangelisti, A. n., Witteles, R. M.  
2019; 21 (8): 40
- **Mortality from Heart Failure and Dementia in the United States: CDC WONDER 1999-2016.** *Journal of cardiac failure*  
Vuong, J. T., Jacob, S. A., Alexander, K. M., Singh, A., Liao, R., Desai, A. S., Dorbala, S.  
2018
- **Randomized Evaluation of Heart Failure With Preserved Ejection Fraction Patients With Acute Heart Failure and Dopamine: The ROPA-DOP Trial.** *JACC. Heart failure*

- Sharma, K., Vaishnav, J., Kalathiya, R., Hu, J. R., Miller, J., Shah, N., Hill, T., Sharp, M., Tsao, A., Alexander, K. M., Gupta, R., Montemayor, K., Kovell, et al  
2018
- **Geographic Disparities in Reported US Amyloidosis Mortality From 1979 to 2015: Potential Underdetection of Cardiac Amyloidosis.** *JAMA cardiology*  
Alexander, K. M., Orav, J., Singh, A., Jacob, S. A., Menon, A., Padera, R. F., Kijewski, M. F., Liao, R., Di Carli, M. F., Laubach, J. P., Falk, R. H., Dorbala, S.  
2018
  - **True, true unrelated? Coexistence of Waldenstrom's macroglobulinemia and cardiac transthyretin Amyloidosis.** *Haematologica*  
Singh, A., Geller, H. I., Alexander, K. M., Padera, R. F., Mitchell, R. N., Dorbala, S., Castillo, J. J., Falk, R. H.  
2018
  - **Stage A Heart Failure: Identification and Management of Heart Failure Risk Factors** *Encyclopedia of Cardiovascular Research and Medicine*  
Alexander, K. M., Nayor, M.  
2018: 446–455
  - **Novel pharmacotherapies for cardiac amyloidosis.** *Pharmacology & therapeutics*  
Alexander, K. M., Singh, A., Falk, R. H.  
2017; 180: 129-138
  - **Association Between Ruptured Distal Biceps Tendon and Wild-Type Transthyretin Cardiac Amyloidosis.** *JAMA*  
Geller, H. I., Singh, A., Alexander, K. M., Mirto, T. M., Falk, R. H.  
2017; 318 (10): 962-963
  - **Phosphorylation of Src by phosphoinositide 3-kinase regulates beta-adrenergic receptor-mediated EGFR transactivation.** *Cellular signalling*  
Watson, L. J., Alexander, K. M., Mohan, M. L., Bowman, A. L., Mangmool, S., Xiao, K., Naga Prasad, S. V., Rockman, H. A.  
2016; 28 (10): 1580-1592
  - **AL (Light-Chain) Cardiac Amyloidosis: A Review of Diagnosis and Therapy.** *Journal of the American College of Cardiology*  
Falk, R. H., Alexander, K. M., Liao, R., Dorbala, S.  
2016; 68 (12): 1323-1341
  - **V122I TTR Cardiac Amyloidosis in Patients of African Descent: Recognizing a Missed Disease or the Dog That Didn't Bark?** *CIRCULATION-HEART FAILURE*  
Alexander, K. M., Falk, R. H.  
2016; 9 (9)
  - **Grim Messenger: Virchow's Node Presenting with Virchow's Triad** *AMERICAN JOURNAL OF MEDICINE*  
Alexander, K. M., Vaduganathan, M., Qamar, A., Gerhard-Herman, M. D.  
2016; 129 (9): 948-951
  - **Response by Alexander et al to Letters Regarding Article, "A Shocking Development in a Young Male Athlete With Chest Pain"** *CIRCULATION*  
Alexander, K. M., Veillet-Chowdhury, M. R., Macintyre, C. J., Loscalzo, J., Bhatt, D. L.  
2016; 134 (4): E22-E23
  - **Utility of multimodality imaging in myopericarditis with aortitis.** *Journal of nuclear cardiology*  
Qamar, A., Veeranna, V., Fatima, A., Alexander, K. M., Di Carli, M. F., Bonaca, M. P., Steigner, M., Dorbala, S.  
2016: -?
  - **A Shocking Development in a Young Male Athlete With Chest Pain** *CIRCULATION*  
Alexander, K. M., Veillet-Chowdhury, M. R., Macintyre, C. J., Loscalzo, J., Bhatt, D. L.  
2016; 133 (8): 756-763
  - **Myocarditis and Pericarditis** *Infectious Diseases Emergencies*  
Alexander, K.  
Oxford University Press.2016: 103–106
  - **Mechanical circulatory support for advanced heart failure.** *Current treatment options in cardiovascular medicine*  
Patel, C. B., Alexander, K. M., Rogers, J. G.  
2010; 12 (6): 549-565

- **A V3 Loop-Dependent gp120 Element Disrupted by CD4 Binding Stabilizes the Human Immunodeficiency Virus Envelope Glycoprotein Trimer** *JOURNAL OF VIROLOGY*

Xiang, S., Finzi, A., Pacheco, B., Alexander, K., Yuan, W., Rizzuto, C., Huang, C., Kwong, P. D., Sodroski, J.  
2010; 84 (7): 3147-3161