



## Daniel Clark, MD, MPH

- Clinical Assistant Professor, Medicine - Cardiovascular Medicine
- Clinical Assistant Professor, Pediatrics - Cardiology

### CLINICAL OFFICE (PRIMARY)

- **Adult Congenital Heart Program**

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Clinic A31 MC 5844

Palo Alto, CA 94305

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### Bio

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#### BIO

Dr. Clark is a board-certified, fellowship-trained cardiologist with the Adult Congenital Heart Program at Stanford Health Care. He is also a clinical assistant professor with dual appointments in the Division of Cardiovascular Medicine, Department of Medicine and the Division of Cardiology, Department of Pediatrics at Stanford University School of Medicine.

Dr. Clark specializes in the diagnosis and treatment of adult congenital heart disease (ACHD) and the management of congenital and acquired heart disease in children. His clinical focus involves the combined use of cardiac magnetic resonance (CMR) and other imaging techniques to evaluate patients with known or suspected cardiovascular disease. Dr. Clark's extensive training and experience with these techniques include multiple fellowships in adult cardiology, cardiovascular imaging, and ACHD.

Dr. Clark is currently a co-investigator on multiple research studies. During his fellowship, he received a training grant from the National Institutes of Health enabling evaluation of the ability of CMR to diagnose COVID-19-associated heart inflammation among college athletes. He currently uses CMR to assess heart transplant outcomes in donors positive for hepatitis C virus. Dr. Clark also received a research grant from the Adult Congenital Heart Disease Association supporting a randomized, controlled clinical trial of cardiac rehabilitation among patients with Fontan failure.

Dr. Clark serves as a peer reviewer for multiple prestigious journals, including The New England Journal of Medicine, Circulation, Journal of the American College of Cardiology, and Journal of the American Heart Association (JAHA). He serves on the editorial board for both JAHA and Circulation: Cardiovascular Imaging. He is also a member of numerous professional medical societies, including the American College of Cardiology, the American Heart Association, and the Adult Congenital Heart Association.

#### CLINICAL FOCUS

- Adult Congenital Heart Disease

## **ACADEMIC APPOINTMENTS**

- Clinical Assistant Professor, Medicine - Cardiovascular Medicine
- Clinical Assistant Professor, Pediatrics - Cardiology
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

## **HONORS AND AWARDS**

- Case of the Year winner, Society for Cardiovascular Magnetic Resonance
- Chief Cardiovascular Medicine Fellow, Vanderbilt University Medical Center (VUMC)
- Cardiovascular Medicine Rhodes Scholarly Award, VUMC
- Cardiovascular Fellow Teacher of the Year, VUMC
- Fellow Teacher of the Year, VUMC
- Scholarship, Mayo Clinic Cardiovascular Board Review
- Member, Alpha Omega Alpha Honor Medical Society
- Jeopardy contest winner, Tennessee American College of Cardiology
- second place, Tennessee American College of Cardiology Poster Competition
- Member, Gold Humanism Honor Society
- Housestaff Clinical Teaching Award, VUMC
- Member, Delta Omega Honorary Society in Public Health

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Fellow, American College of Cardiology (ACC) (2024 - present)
- Member, Tennessee Medical Association (TMA) (2024 - present)
- Member, American Heart Association (AHA) (2024 - present)
- Member, Society for Cardiovascular Magnetic Resonance (SCMR) (2024 - present)
- Member, Society of Cardiovascular Computed Tomography (SCCT) (2024 - present)
- Member, Adult Congenital Heart Association (ACHA) (2024 - present)

## **PROFESSIONAL EDUCATION**

- Fellowship: Vanderbilt University Medical Center Cardiovascular Fellowship (2020) TN
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2020)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2017)
- Fellowship: Vanderbilt University Adult Congenital Heart Disease Fellowship Pgm (2022) TN
- Fellowship, Vanderbilt University Medical Center , Adult Congenital Heart Disease (2022)
- Fellowship, Vanderbilt University Medical Center , Cardiovascular Medicine (2020)
- Residency: Vanderbilt University Internal Medicine Residency (2017) TN
- Residency, Vanderbilt University Medical Center , Internal Medicine-Pediatrics (2017)
- Medical Education: University of Texas at San Antonio (2013) TX
- MPH, University of Texas Health Science Center San Antonio , Global Health (2013)
- MD, University of Texas Health Science Center San Antonio , Medicine (2013)

- B.S., Northwestern University , Social Policy (2007)
- Research Fellow, Vanderbilt University Medical Center , T32 HL007411-39 NIH grant (2021)
- Chief Fellow, Vanderbilt University Medical Center , Cardiovascular Medicine (2020)

## Research & Scholarship

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### RESEARCH INTERESTS

- Curriculum and Instruction

### PROJECTS

- REHAB Fontan Failure: RCT of the Effects of Cardiac reHABilitation versus Tadalafil among patients with Fontan Failure - Stanford University, Vanderbilt University (10/1/2022 - 9/30/2023)

## Publications

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### PUBLICATIONS

- **The role of comprehensive stress cardiac MRI in autoimmune rheumatic disease: A review.** *International journal of cardiology. Heart & vasculature*  
Varghese, B., Gustafson, A., Chew, E., Chew, C., Frech, T., El-Harasis, M. A., Kumar, A., Shoemaker, B., Chrispin, J., Mukherjee, M., Dendy, J. M., Hughes, S. G., Clark, et al  
2024; 52: 101381
- **A case report of successful primary percutaneous coronary intervention to an occluded anomalous left main coronary artery arising from the right coronary sinus.** *European heart journal. Case reports*  
Wong, C. C., Pogatchnik, B. P., Clark, D. E., Sharma, R. P.  
2024; 8 (4): ytae192
- **Percutaneous Closure of a Ruptured Sinus of Valsalva Aneurysm under Transesophageal Echocardiography Guidance.** *CASE (Philadelphia, Pa.)*  
Li, X. E., McElhinney, D. B., Lui, G. K., Clark, D. E., Woo, J. P.  
2024; 8 (3Part A): 186-192
- **Multimodality Imaging in Management of Adults with Dextro-Transposition of the Great Arteries Post Arterial Switch Operation.** *CASE (Philadelphia, Pa.)*  
Conrad, D. R., Woo, J. P., Lui, G. K., Clark, D. E.  
2024; 8 (3Part A): 162-166
- **Clinical prediction model: Multisystem inflammatory syndrome in children versus Kawasaki disease.** *Journal of hospital medicine*  
Starnes, L. S., Starnes, J. R., Stopczynski, T., Amarin, J. Z., Charnogursky, C., Hayek, H., Talj, R., Parra, D. A., Clark, D. E., Patrick, A. E., Katz, S. E., Howard, L. M., Peetluk, et al  
2024
- **Society for Cardiovascular Magnetic Resonance 2022 Cases of SCMR case series.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*  
Johnson, J. N., Pouraliakbar, H., Mahdavi, M., Ranjbar, A., Pfirman, K., Mehra, V., Ahmed, S., Ba-Atiyah, W., Galal, M. O., Zahr, R. A., Hussain, N., Tadikamalla, R. R., Farah, et al  
2023; 26 (1): 100007
- **Predicting Adverse Cardiac Events After Radiotherapy for Locally Advanced Non-Small Cell Lung Cancer.** *JACC. CardioOncology*  
No, H. J., Guo, F. B., Park, N. J., Kastelowitz, N., Rhee, J. W., Clark, D. E., Chin, A. L., Vitzthum, L. K., Horst, K. C., Moding, E. J., Loo, B. W., Diehn, M., Binkley, et al  
2023; 5 (6): 775-787
- **Metabolic Signatures of Cardiac Dysfunction, Multimorbidity, and Post-Transcatheter Aortic Valve Implantation Death.** *Journal of the American Heart Association*  
Perry, A. S., Zhao, S., Murthy, V., Gupta, D. K., Fearon, W. F., Kim, J. B., Kapadia, S., Kumbhani, D. J., Gillam, L., Whisenant, B., Quader, N., Zajarias, A., Mallugari, et al  
2023: e029542

- **Morbidity and Mortality in Adult Fontan Patients After Heart or Combined Heart-Liver Transplantation.** *Journal of the American College of Cardiology*  
Lewis, M. J., Reardon, L. C., Aboulhosn, J., Haeffele, C., Chen, S., Kim, Y., Fuller, S., Forbess, L., Alshawabkeh, L., Urey, M. A., Book, W. M., Rodriguez, F., Menachem, et al  
2023; 81 (22): 2161-2171
- **Clinical Outcomes of Adult Fontan-Associated Liver Disease and Combined Heart-Liver Transplantation.** *Journal of the American College of Cardiology*  
Lewis, M. J., Reardon, L. C., Aboulhosn, J., Haeffele, C., Chen, S., Kim, Y., Fuller, S., Forbess, L., Alshawabkeh, L., Urey, M. A., Book, W. M., Rodriguez, F., Menachem, et al  
2023; 81 (22): 2149-2160
- **Multimodality Cardiac Imaging in COVID.** *Circulation research*  
Holby, S. N., Richardson, T. L., Laws, J. L., McLaren, T. A., Soslow, J. H., Baker, M. T., Dendy, J. M., Clark, D. E., Hughes, S. G.  
2023; 132 (10): 1387-1404
- **Myocardial Injury on CMR in Patients With COVID-19 and Suspected Cardiac Involvement.** *JACC. Cardiovascular imaging*  
Vidula, M. K., Rajewska-Tabor, J., Cao, J. J., Kang, Y., Craft, J., Mei, W., Chandrasekaran, P. S., Clark, D. E., Poenar, A., Gorecka, M., Malahfji, M., Cowan, E., Kwan, et al  
2022
- **A Diagnostic Prediction Model to Distinguish Multisystem Inflammatory Syndrome in Children.** *ACR open rheumatology*  
Clark, M. T., Rankin, D. A., Peetluk, L. S., Gotte, A., Herndon, A., McEachern, W., Smith, A., Clark, D. E., Hardison, E., Esbenshade, A. J., Patrick, A., Halasa, N. B., Connelly, et al  
2022
- **Global Longitudinal Strain and Biomarkers of Cardiac Damage and Stress as Predictors of Outcomes After Transcatheter Aortic Valve Implantation.** *Journal of the American Heart Association*  
Perry, A. S., Stein, E. J., Biersmith, M., Fearon, W. F., Elmariah, S., Kim, J. B., Clark, D. E., Patel, J. N., Gonzales, H., Baker, M., Piana, R. N., Mallugari, R. R., Kapadia, et al  
2022: e026529
- **Myocardial Tissue Oxygenation and Microvascular Blood Volume Measurement Using a Contrast Blood Oxygenation Level-Dependent Imaging Model.** *Investigative radiology*  
Dendy, J. M., Hughes, S. G., Soslow, J. H., Clark, D. E., Paschal, C. B., Gore, J. C.  
2022; 57 (9): 561-566
- **Syncopal in an elderly man with hypertrophic obstructive cardiomyopathy** *HEART*  
Curkovic, N. B., Clark, D. E., Hughes, S. G.  
2022; 108 (18): 1437-+
- **Syncopal in an elderly man with hypertrophic obstructive cardiomyopathy.** *Heart (British Cardiac Society)*  
Curkovic, N. B., Clark, D. E., Hughes, S. G.  
2022; 108 (18): 1437-1500
- **Reduced Circumferential Strain in Athletes with Prior COVID-19.** *Radiology. Cardiothoracic imaging*  
Wassenaar, J. W., Clark, D. E., Dixon, D. D., George-Durrett, K., Parikh, A., Li, D. L., Baker, M. T., Gupta, D. K., Hughes, S. G., Soslow, J. H., Dendy, J. M.  
2022; 4 (4): e210310
- **Prevalence and clinical implications of persistent or exertional cardiopulmonary symptoms following SARS-CoV-2 infection in 3597 collegiate athletes: a study from the Outcomes Registry for Cardiac Conditions in Athletes (ORCCA).** *British journal of sports medicine*  
Petek, B. J., Moulson, N., Baggish, A. L., Kliethermes, S. A., Patel, M. R., Churchill, T. W., Harmon, K. G., Drezner, J. A.  
2022; 56 (16): 913-918
- **Case Series Conference: Anesthetic Management in Parturients With Fontan Physiology.** *Journal of cardiothoracic and vascular anesthesia*  
Clark, D. E., Staudt, G., Byrne, R. D., Jelly, C., Christian, K., Dumas, S. D., Healan, S., Frischhertz, B. P., Thompson, J., Weingarten, A. J., Eagle, S.  
2022
- **Cardiovascular Outcomes in Collegiate Athletes After SARS-CoV-2 Infection: 1-Year Follow-Up From the Outcomes Registry for Cardiac Conditions in Athletes.** *Circulation*  
Petek, B. J., Moulson, N., Drezner, J. A., Harmon, K. G., Kliethermes, S. A., Churchill, T. W., Patel, M. R., Baggish, A. L.  
2022; 145 (22): 1690-1692

- **Characteristics of COVID-19 Myocarditis With and Without Multisystem Inflammatory Syndrome.** *The American journal of cardiology*  
Li, D. L., Davogustto, G., Soslow, J. H., Wassenaar, J. W., Parikh, A. P., Chew, J. D., Dendy, J. M., George-Durrett, K. M., Parra, D. A., Clark, D. E., Hughes, S. G.  
2022; 168: 135-141
- **Left Ventricular Hypertrophy and Biomarkers of Cardiac Damage and Stress in Aortic Stenosis.** *Journal of the American Heart Association*  
Stein, E. J., Fearon, W. F., Elmariah, S., Kim, J. B., Kapadia, S., Kumbhani, D. J., Gillam, L., Whisenant, B., Quader, N., Zajarias, A., Welt, F. G., Bavry, A. A., Coylewright, et al  
2022: e023466
- **Exception-Status Listing: A Critical Pathway to Heart Transplantation for Adults With Congenital Heart Diseases.** *Journal of cardiac failure*  
Rali, A. S., Ranka, S., Mazurek, J. A., Brinkley, M. D., Cedars, A., Clark, D., Do, N., Lazzara, G. E., Punnoose, L., Sandhaus, E., Shah, A., Taduru, S., Wigger, et al  
2022; 28 (3): 415-421
- **Toxin-Mediated Myocarditis From a Brown Recluse Spider Bite.** *JACC. Case reports*  
Sims, R. A., Fish-Trotter, H. L., Clark, D. E., Gayle, K. A., Hughes, S. G., Brittain, E. L.  
2022; 4 (1): 49-53
- **Cardiac Magnetic Resonance in the Evaluation of COVID-19.** *Cardiac failure review*  
Clark, D. E., Aggarwal, S. K., Phillips, N. J., Soslow, J. H., Dendy, J. M., Hughes, S. G.  
2022; 8: e09
- **Austin Powers' Steamroller: Lessons Learned to Benefit Patients with Congenital Heart Disease.** *Journal of cardiac failure*  
Menachem, J. N., Clark, D., Cedars, A.  
2021
- **The Bright Side of Myocardial Edema.** *Journal of the American Heart Association*  
Clark, D. E., Hughes, S. G.  
2021; 10 (22): e023731
- **Society for Cardiovascular Magnetic Resonance 2020 Case of the Week series.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*  
Johnson, J. N., Mandell, J. G., Christopher, A., Olivieri, L. J., Loke, Y. H., Campbell, M. J., Darty, S., Kim, H. W., Clark, D. E., Frischhertz, B. P., Fish, F. A., Bailey, A. L., Mikolaj, et al  
2021; 23 (1): 108
- **Cardiovascular magnetic resonance evaluation of soldiers after recovery from symptomatic SARS-CoV-2 infection: a case-control study of cardiovascular post-acute sequelae of SARS-CoV-2 infection (CV PASC).** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*  
Clark, D. E., Dendy, J. M., Li, D. L., Crum, K., Dixon, D., George-Durrett, K., Parikh, A. P., Wassenaar, J. W., Hughes, S. G., Soslow, J. H.  
2021; 23 (1): 106
- **Sizing Up Fontan Failure: Association with Increasing Weight in Adulthood.** *Pediatric cardiology*  
Byrne, R. D., Weingarten, A. J., Clark, D. E., Healan, S. J., Richardson, T. L., Huang, S., Menachem, J. N., Frischhertz, B. P.  
2021; 42 (6): 1425-1432
- **Sizing heart transplant donors in adults with congenital heart disease.** *The Journal of thoracic and cardiovascular surgery*  
Clark, D. E., Byrne, R. D., Mazurek, J. A., Opotowsky, A. R., Schlendorf, K. H., Xu, M., Zalawadiya, S., Menachem, J. N.  
2021; 162 (2): 422-428.e1
- **Characteristics Associated With Multisystem Inflammatory Syndrome Among Adults With SARS-CoV-2 Infection.** *JAMA network open*  
Davogustto, G. E., Clark, D. E., Hardison, E., Yanis, A. H., Lowery, B. D., Halasa, N. B., Wells, Q. S.  
2021; 4 (5): e2110323
- **No survival benefit associated with waiting for non-lung donor heart transplants for adult recipients with congenital heart disease.** *Clinical transplantation*  
Diamant, M. J., Fox, A. L., Modi, V. A., Joshi, A. A., Clark, D. E., Bichell, D. P., Cedars, A., Fowler, R., Frischhertz, B. P., Mazurek, J. A., Schlendorf, K. H., Shah, A. S., Zalawadiya, et al  
2021; 35 (5): e14266
- **Detection of toxoplasmic encephalitis in HIV positive patients in urine with hydrogel nanoparticles.** *PLoS neglected tropical diseases*

- Steinberg, H. E., Bowman, N. M., Diestra, A., Ferradas, C., Russo, P., Clark, D. E., Zhu, D., Magni, R., Malaga, E., Diaz, M., Pinedo-Cancino, V., Ramal Asayag, C., Calderón, et al  
2021; 15 (3): e0009199
- **COVID-19 Myocardial Pathology Evaluation in Athletes With Cardiac Magnetic Resonance (COMPETE CMR).** *Circulation*  
Clark, D. E., Parikh, A., Dendy, J. M., Diamond, A. B., George-Durrett, K., Fish, F. A., Slaughter, J. C., Fitch, W., Hughes, S. G., Soslow, J. H.  
2021; 143 (6): 609-612
  - **Congenital Heart Disease in Children**  
Richardson, T., Clark, D., Frischhertz, B.  
McGraw-Hill Education. New York, NY.  
2021
  - **Pediatric Hypertension: Part 1 Diagnosis**  
Richardson, T., Clark, D., VanDeVoorde, R., Frischhertz, B.  
McGraw-Hill Education. New York, NY.  
2021
  - **COVID-19 Myocardial Pathology Evaluated Through screening Cardiac Magnetic Resonance (COMPETE CMR).** *medRxiv : the preprint server for health sciences*  
Clark, D. E., Parikh, A., Dendy, J. M., Diamond, A. B., George-Durrett, K., Fish, F. A., Fitch, W., Hughes, S. G., Soslow, J. H.  
2020
  - **HeartMate 3 in a ccTGA patient.** *World journal for pediatric & congenital heart surgery*  
Clark, D. E., Richardson, T. L., Byrne, R. D., Klausner, R. E., Frischhertz, B. P., Zalawadiya, S. K., Mettler, B. A., Danter, M. R., Menachem, J. N.  
2020; 11 (3): 368-369
  - **Human Monocytic Ehrlichiosis Associated With Myocarditis and Hemophagocytic Lymphohistiocytosis.** *JACC. Case reports*  
Dahm, C. N., Yang, B. Q., Clark, D. E., Armstrong, W. C., Stevenson, L. W.  
2020; 2 (3): 420-425
  - **Heart transplantation and in-hospital outcomes in adult congenital heart disease patients with Fontan: A decade nationwide analysis from 2004 to 2014.** *Journal of cardiac surgery*  
Hernandez, G. A., Lemor, A., Clark, D., Blumer, V., Burstein, D., Byrne, R., Fowler, R., Frischhertz, B., Sandhaus, E., Schlendorf, K., Zalawadiya, S., Lindenfeld, J., Menachem, et al  
2020; 35 (3): 603-608
  - **Biomarker-specific differences between transpulmonary and peripheral arterial-venous blood sampling in patients with pulmonary hypertension.** *Biomarkers : biochemical indicators of exposure, response, and susceptibility to chemicals*  
Meoli, D. F., Clark, D. E., Davogusto, G., Su, Y. R., Brittain, E. L., Hemnes, A. R., Monahan, K.  
2020; 25 (2): 131-136
  - **CMR detects endocardial fibroelastosis in an ACHD patient with ventricular tachycardia**  
Clark, D., Frischhertz, B., Fish, F., Bailey, A., Mikolaj, M., Hughes, S.  
SCMR Case of the Week, Number 20-03.  
2020
  - **RVOT thrombosis without valvular extension in a repaired tetralogy of Fallot patient**  
Aggarwal, S., Clark, D., Hughes, S.  
SCMR Case of the Week, Number 22-07.  
2020
  - **CardioMEMS Implantation in Patient With a Systemic Right Ventricle.** *JACC. Case reports*  
Clark, D. E., Fowler, R., Zalawadiya, S., Lindenfeld, J., Menachem, J. N.  
2019; 1 (3): 394-395
  - **More than the heart: Hepatic, renal, and cardiac dysfunction in adult Fontan patients.** *Congenital heart disease*  
Byrne, R. D., Weingarten, A. J., Clark, D. E., Huang, S., Perri, R. E., Scanga, A. E., Menachem, J. N., Markham, L. W., Frischhertz, B. P.  
2019; 14 (5): 765-771

- **Development of a Novel Protocol Based on Blood Clot to Improve the Sensitivity of qPCR Detection of *Toxoplasma gondii* in Peripheral Blood Specimens** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*  
Gutierrez-Loli, R., Ferradas, C., Diestra, A., Traianou, A., Bowman, N., Bok, J., Reimer-McAtee, M., Ramal, C., Ticona, E., Steinberg, H., Mayta, H., Calderon, M., Calla-Choque, et al  
2019; 100 (1): 83-89
- **Predictors of Intravenous Immunoglobulin Nonresponse and Racial Disparities in Kawasaki Disease.** *The Pediatric infectious disease journal*  
Clark, D. E., Denby, K. J., Kaufman, L. M., Fill, M. A., Piya, B., Krishnaswami, S., Fonnesbeck, C., Halasa, N.  
2018; 37 (12): 1227-1234
- **Nutrition for the School-age Child and Teenager**  
Clark, D., El-Sourady, M.  
McGraw-Hill Education. New York, NY.  
2018
- **Discipline for Young Children**  
Moutsios, S., Clark, D.  
McGraw-Hill Education. New York, NY.  
2018
- **Nutrition for Toddlers**  
Clark, D., Moutsios, S., Miller, M., El-Sourady, M.  
McGraw-Hill Education. New York, NY.  
2018
- **Management of Kawasaki disease in adults.** *Heart (British Cardiac Society)*  
Denby, K. J., Clark, D. E., Markham, L. W.  
2017; 103 (22): 1760-1769
- **Use of a Chagas Urine Nanoparticle Test (Chunap) to Correlate with Parasitemia Levels in *T. cruzi*/HIV Co-infected Patients.** *PLoS neglected tropical diseases*  
Castro-Sesquen, Y. E., Gilman, R. H., Mejia, C., Clark, D. E., Choi, J., Reimer-McAtee, M. J., Castro, R., Valencia-Ayala, E., Flores, J., Bowman, N., Castillo-Neyra, R., Torrico, F., Liotta, et al  
2016; 10 (2): e0004407