

# Stanford

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## John Dykes

Clinical Associate Professor, Pediatrics - Cardiology

### CLINICAL OFFICE (PRIMARY)

- **Pediatric Heart Center**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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## Bio

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### CLINICAL FOCUS

- Advanced Heart Failure and Transplant Cardiology

### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Cardiology
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

### PROFESSIONAL EDUCATION

- Medical Education: Medical College of Georgia at Augusta University (2009) GA
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2016)
- Residency: University of Tennessee Health Science Center Pediatric Residency (2012) TN
- Fellowship: Nicklaus Childrens Hospital Pediatric Cardiology Fellowship (2015) FL
- Fellowship: Stanford University Pediatric Cardiology Fellowship (2016) CA

## Publications

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### PUBLICATIONS

- **iDECIDE-VAD-PEDIATRIC: Development of a Decision Aid to Assist Children and Their Caregivers When Considering a Ventricular Assist Device.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Hollander, S. A., Murray, J. M., Dykes, J. C., Duganiero, T., Thompson, J. S., Hunter, T., Christ, K., Hussain, S. F., Matlock, D. D., Allen, L. A., McIlvennan, C. K.  
2025
- **Left Ventricular Assist Device Implantation and Heart Transplantation in a Young Man With Duchenne Muscular Dystrophy.** *Pediatric transplantation*  
Hollander, S. A., Dykes, J., Dayan, J., Morales, E., Steffes, L., Klotz, J. M., Murray, J. M., Ma, M., Martin, E., Rosenthal, D. N., Kaufman, B. D.  
2025; 29 (6): e70162

- **Relationship Between Central Venous Pressure, Cardiac Index, and Renal Function in Pediatric Heart Failure: a Pediatric Heart Transplant Society Study.** *Pediatric cardiology*  
Donmez, N., Moxey-Mims, M., Cantor, R., Chrisant, M. R., Bearl, D. W., Hernandez, N. B., Dykes, J., Beasley, G. S., Boyle, G., Deshpande, S. R.  
2025
- **The ACTION VAD Registry: A Collective Five-Year Experience.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Edelson, J. B., Raskin, A., Absi, M., Adachi, I., Aljohani, O., Alzubi, A., Amdani, S., Asante-Korang, A., Auerbach, S., Bansal, N., Bearl, D., Boucek, K., Butto, et al  
2025
- **Long#Distance Heart Transplantation With Ex Vivo Preservation Systems in a Pediatric Center: An Early Case Series** *Pediatric Transplantation*  
Choi, P. S., Pong, S., Hochstein, J., Ruaengsri, C., Shibata, M., Sharir, A., Nasirov, T., Dykes, J., Hollander, S. A., Rosenthal, D. N., Martin, E., Ma, M. R.  
2025
- **Over 100 Fontan Patients on Systemic Ventricular Assist Device Support: An ACTION Update.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Chen, S., Simpson, K. E.  
2024
- **Contemporary Pediatric Heart Transplant Waitlist Mortality.** *Journal of the American College of Cardiology*  
Power, A., Sweat, K. R., Roth, A., Dykes, J. C., Kaufman, B., Ma, M., Chen, S., Hollander, S. A., Profita, E., Rosenthal, D. N., Barkoff, L., Chen, C. Y., Davies, et al  
2024; 84 (7): 620-632
- **Transcatheter Axial Pump Use in Pediatric Patients on Venous-Arterial Extracorporeal Membrane Oxygenation: An ACTION Collaborative Experience.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Shugh, S. B., Tume, S. C., Bansal, N., Dykes, J. C., Esch, J. J., Jeewa, A., Law, S., O'Connor, M., Parent, J. J., Said, A. S., Scholl, F. G., Shezad, M. F., Morray, et al  
2024; 70 (7): 602-608
- **A Comprehensive, Multi-Faceted Strategy to Increase Pediatric Donor Heart Utilization.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Hollander, S. A., Chen, S., Dykes, J., Kaufman, B. D., Lee, E., Wujcik, K., Profita, E., Schmidt, J., Rosenthal, D. N.  
2024
- **Neurorehabilitation in a Pediatric Stroke Patient Supported on a CentriMag.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Kwong, J., Rizzuto, S., Hollander, A. M., Rivera, J., Dykes, J. C., Jahadi, O., Murray, J., Hollander, S. A.  
2024
- **Impact of HeartWare ventricular assist device discontinuation on the pediatric population: An Advanced Cardiac Therapies Improving Outcomes Network (ACTION) registry analysis.** *JHLT open*  
Niebler, R. A., Shezad, M., Absi, M., Aljohani, O. A., Amdani, S., Auerbach, S., Bearl, D. W., Boucek, K., Buchholz, H., Castleberry, C., Dykes, J., Engelhardt, K., Friedland-Little, et al  
2024; 4: 100064
- **A prospective multicenter feasibility study of a miniaturized implantable continuous flow ventricular assist device in smaller children with heart failure.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Almond, C. S., Davies, R., Adachi, I., Richmond, M., Law, S., Tunuguntla, H., Mao, C., Shaw, F., Lantz, J., Wearden, P. D., Jordan, L. C., Ichord, R. N., Burns, et al  
2024
- **Pulmonary Vasodilator Therapy in Pediatric Patients on Ventricular Assist Device Support: A Single-Center Experience and Proposal for Use.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Schramm, J. E., Dykes, J. C., Hopper, R. K., Feinstein, J. A., Rosenthal, D. N., Kameny, R. J.  
2023
- **An integrated program to expand donor utilization in pediatric heart transplantation: Case report of successful transplant with multiple donor risk factors.** *Pediatric transplantation*

Torpoco Rivera, D. M., Hollander, S. A., Almond, C., Profita, E., Dykes, J. C., Raissadati, A., Lee, J., Sacks, L. D., Kleiman, Z. I., Lee, E., Rosenthal, A., Rosenthal, D. N., Nasirov, et al

2023: e14584

- **Expanding Use of the HeartMate 3 Ventricular Assist Device in Pediatric and Adult Patients within the Advanced Cardiac Therapies Improving Outcomes Network (ACTION).** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
O'Connor, M. J., Shezad, M., Ahmed, H., Amdani, S., Auerbach, S. R., Bearl, D. W., Butto, A., Byrnes, J. W., Conway, J., Dykes, J. C., Glass, L., Lantz, J., Law, et al  
2023
- **Contemporary care and outcomes of critically ill children with clinically diagnosed myocarditis.** *Journal of cardiac failure*  
Peng, D. M., Kwiatkowski, D. M., Lasa, J. J., Zhang, W., Banerjee, M., Mikesell, K., Joong, A., Dykes, J. C., Tume, S. C., Niebler, R. A., Teele, S. A., Klugman, D., Gaies, et al  
2023
- **Impact of Weight on Ventricular Assist Device Outcomes in Dilated Cardiomyopathy Patients in Pediatric Centers: An ACTION Registry Study.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Kwiatkowski, D. M., Shezad, M., Barnes, A. P., Ploutz, M. S., Law, S. P., Zafar, F., Morales, D. L., O'Connor, M. J.  
2023
- **The Fontan immunophenotype and post-transplant outcomes in children: A multi-institutional study.** *Pediatric transplantation*  
Mantell, B. S., Azeka, E., Cantor, R. S., Carlo, W. F., Chrisant, M., Dykes, J. C., Hoffman, T. M., Kirklin, J. K., Koehl, D., L'Ecuyer, T. J., McAllister, J. M., Prada-Ruiz, A. C., Richmond, et al  
2023: e14456
- **Home Milrinone in Pediatric Hospice Care of Children with Heart Failure.** *Journal of pain and symptom management*  
Hollander, S. A., Wujcik, K., Schmidt, J., Liu, E., Lin, A., Dykes, J., Good, J., Brown, M., Rosenthal, D.  
2022
- **Increased risk of infections in pediatric Fontan patients after heart transplantation.** *Pediatric transplantation*  
Ahmed, H., Lee, J., Bernstein, D., Rosenthal, D., Dykes, J., Lee, D., Barkoff, L., Weinberg, K., Hollander, S. A., Chen, S.  
2022: e14421
- **Evaluating predicted heart mass in adolescent heart transplantation.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Lee, J. Y., Zawadzki, R. S., Kidambi, S., Rosenthal, D. N., Dykes, J. C., Nasirov, T., Ma, M.  
2022
- **Weight Matching in Infant Heart Transplantation: A National Registry Analysis.** *The Annals of thoracic surgery*  
Lee, J. Y., Kidambi, S., Zawadzki, R. S., Rosenthal, D. N., Dykes, J. C., Nasirov, T., Ma, M.  
2022
- **Fatal nocardiosis infection in a pediatric patient with an immunodeficiency after heart re-transplantation.** *Pediatric transplantation*  
Mai, D. H., Sedler, J., Weinberg, K., Bernstein, D., Schroeder, A., Mathew, R., Chen, S., Lee, D., Dykes, J. C., Hollander, S. A.  
2022: e14344
- **Expanded cardiovascular phenotype of Myhre syndrome includes tetralogy of Fallot suggesting a role for SMAD4 in human neural crest defects.** *American journal of medical genetics. Part A*  
Cappuccio, G., Brunetti-Pierri, N., Clift, P., Learn, C., Dykes, J. C., Mercer, C. L., Callewaert, B., Meerschaut, I., Spinelli, A. M., Bruno, I., Gillespie, M. J., Dorfman, A. T., Grimberg, et al  
1800
- **Clinical and hemodynamic characteristics of the pediatric failing Fontan.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Dykes, J. C., Rosenthal, D. N., Bernstein, D., McElhinney, D. B., Chrisant, M. R., Daly, K. P., Ameduri, R. K., Knecht, K., Richmond, M. E., Lin, K. Y., Urschel, S., Simmonds, J., Simpson, et al  
2021
- **Characteristics and Outcomes of Pediatric Patients With a Ventricular Assist Device Presenting to the Emergency Department.** *Pediatric emergency care*  
Pokrajac, N., Cantwell, L. M., Murray, J. M., Dykes, J. C.

2021

- **The multisystem nature of isomerism: left isomerism complicated by Abernethy malformation and portopulmonary hypertension.** *Cardiology in the young*  
Ringle, M. L., Loomba, R., Dykes, J. C., Khan, D., Schidlow, D., Wernovsky, G.  
2021: 1–9
- **Berlin Heart EXCOR and ACTION post-approval surveillance study report.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Zafar, F., Conway, J., Bleiweis, M. S., Al-Aklabi, M., Ameduri, R., Barnes, A., Bearl, D. W., Buchholz, H., Church, S., Do, N. L., Duffy, V., Dykes, J. C., Eghtesady, et al  
2021
- **Adverse Events Associated with Cardiac Catheterization in Children Supported with Ventricular Assist Devices.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Power, A., Navaratnam, M., Murray, J. M., Peng, L. F., Rosenthal, D. N., Dykes, J. C., Yarlagadda, V. V., Maeda, K., Almond, C. S., Chen, S.  
2021
- **The Stanford acute heart failure symptom score for patients hospitalized with heart failure.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Almond, C. S., Chen, S., Dykes, J. C., Kwong, J., Burstein, D. S., Rosenthal, D. N., Kipps, A. K., Teuteberg, J., Murray, J. M., Kaufman, B. D., Hollander, S. A., Profita, E., Yarlagadda, et al  
2020
- **RAPID AORTIC HOMOGRAFT DEGENERATION AND VAD SUPPORT IN A NEONATE WITH SINGLE VENTRICLE HEART DISEASE**  
Ahmed, H., Chen, S., Yarlagadda, V., Almond, C., Murray, J., Rosenthal, D. N., Ma, M., Dykes, J., Maeda, K.  
ELSEVIER SCIENCE INC.2020: 2865
- **RECENT TRENDS IN RIGHT HEART MECHANICAL SUPPORT STRATEGIES IN CHILDREN REQUIRING LVAD SUPPORT**  
Dykes, J., Ahmed, H., Power, A., Murray, J., Chen, C., Chen, S., Rosenthal, D. N., Maeda, K., Almond, C.  
ELSEVIER SCIENCE INC.2020: 1052
- **Evolution of Single Ventricular Assist Device Support for the Failing Bi-directional Glenn Patient.** *The Annals of thoracic surgery*  
Maeda, K., Nasirov, T., Yarlagadda, V., Hollander, S. A., Navaratnam, M., Rosenthal, D. N., Dykes, J. C., Kaufman, B. D., Almond, C. S., Reinhartz, O., Murray, J., Chen, S.  
2020
- **Combined pediatric heart transplant and Nuss procedure in a patient with Marfan syndrome** *JTCVS TECHNIQUES*  
Nasirov, T., Dykes, J. C., Bruzoni, M., Maeda, K.  
2020; 1: 97-99
- **Bridge to Transplant with Ventricular Assist Device Support in Pediatric Patients with Single Ventricle Heart Disease** *ASAIO JOURNAL*  
Chen, S., Rosenthal, D. N., Murray, J., Dykes, J. C., Almond, C. S., Yarlagadda, V. V., Wright, G., Navaratnam, M., Reinhartz, O., Maeda, K.  
2020; 66 (2): 205–11
- **Commentary: To BiVAD or not to BiVAD...that is the question?** *The Journal of thoracic and cardiovascular surgery*  
Dykes, J. C., Maeda, K. n.  
2020
- **A Quality Bundle to Support High-Risk Pediatric Ventricular Assist Device Implantation.** *Pediatric cardiology*  
Knoll, C., Chen, S., Murray, J. M., Dykes, J. C., Yarlagadda, V. V., Rosenthal, D. N., Almond, C. S., Maeda, K., Shin, A. Y.  
2019
- **Bridge to Transplant with Ventricular Assist Device Support in Pediatric Patients with Single Ventricle Heart Disease.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Chen, S., Rosenthal, D. N., Murray, J., Dykes, J. C., Almond, C. S., Yarlagadda, V. V., Wright, G., Navaratnam, M., Reinhartz, O., Maeda, K.  
2019
- **Parental Acquisition of Echocardiographic Images in Pediatric Heart Transplant Patients Using a Handheld Device: A Pilot Telehealth Study** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*  
Dykes, J. C., Kipps, A. K., Chen, A., Nourse, S., Rosenthal, D. N., Tierney, E.

2019; 32 (3): 404–11

- **Long-term surveillance biopsy: Is it necessary after pediatric heart transplant?** *PEDIATRIC TRANSPLANTATION*  
Peng, D. M., Ding, V. Y., Hollander, S. A., Khalapyan, T., Dykes, J. C., Rosenthal, D. N., Almond, C. S., Sakarovitch, C., Desai, M., McElhinney, D. B.  
2019; 23 (1)
- **Commentary: Improving donor size matching in pediatric heart transplantation-Moving beyond body weight.** *The Journal of thoracic and cardiovascular surgery*  
Maeda, K. n., Dykes, J. C.  
2019
- **Parental Acquisition of Echocardiographic Images in Pediatric Heart Transplant Patients Using a Handheld Device: A Pilot Telehealth Study.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*  
Dykes, J. C., Kipps, A. K., Chen, A., Nourse, S., Rosenthal, D. N., Selamet Tierney, E. S.  
2018
- **Long-term surveillance biopsy: Is it necessary after pediatric heart transplant?** *Pediatric transplantation*  
Peng, D. M., Ding, V. Y., Hollander, S. A., Khalapyan, T., Dykes, J. C., Rosenthal, D. N., Almond, C. S., Sakarovitch, C., Desai, M., McElhinney, D. B.  
2018: e13330
- **An Alternative Approach by HeartWare Ventricular Assist Device in Hypertrophic Cardiomyopathy** *ANNALS OF THORACIC SURGERY*  
Maeda, K., Nasirov, T., Rosenthal, D. N., Dykes, J. C.  
2018; 106 (5): E231–E232
- **An Alternative Approach by HVAD Ventricular Assist Device in Hypertrophic Cardiomyopathy.** *The Annals of thoracic surgery*  
Maeda, K., Nasirov, T., Rosenthal, D. N., Dykes, J. C.  
2018
- **Functional status of United States children supported with a left ventricular assist device at heart transplantation.** *journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Bulic, A., Maeda, K., Zhang, Y., Chen, S., McElhinney, D. B., Dykes, J. C., Hollander, A. M., Hollander, S. A., Murray, J., Reinhartz, O., Gowan, M. A., Rosenthal, D. N., Almond, et al  
2017
- **The End of Life Experience of Pediatric Heart Transplant Recipients.** *Journal of pain and symptom management*  
Hollander, S. A., Dykes, J., Chen, S., Barkoff, L., Sourkes, B., Cohen, H., Rosenthal, D. N., Bernstein, D., Kaufman, B. D.  
2017
- **Haemodynamic profiles of children with end-stage heart failure.** *European heart journal*  
Chen, S. n., Dykes, J. C., McElhinney, D. B., Gajarski, R. J., Shin, A. Y., Hollander, S. A., Everitt, M. E., Price, J. F., Thiagarajan, R. R., Kindel, S. J., Rossano, J. W., Kaufman, B. D., May, et al  
2017; 38 (38): 2900–2909
- **Alternative Strategy for Biventricular Assist Device in an Infant With Hypertrophic Cardiomyopathy.** *The Annals of thoracic surgery*  
Dykes, J. C., Reinhartz, O. n., Almond, C. S., Yarlagadda, V. n., Murray, J. n., Rosenthal, D. N., Maeda, K. n.  
2017; 104 (2): e185–e186
- **Temporary Circulatory Support in U.S. Children Awaiting Heart Transplantation.** *Journal of the American College of Cardiology*  
Yarlagadda, V. V., Maeda, K. n., Zhang, Y. n., Chen, S. n., Dykes, J. C., Gowen, M. A., Shuttleworth, P. n., Murray, J. M., Shin, A. Y., Reinhartz, O. n., Rosenthal, D. N., McElhinney, D. B., Almond, et al  
2017; 70 (18): 2250–60