

Stanford



David Kwiatkowski

Clinical Associate Professor, Pediatrics - Cardiology

CLINICAL OFFICE (PRIMARY)

- **Pediatric Heart Center**

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Bio

CLINICAL FOCUS

- Pediatric Cardiac Intensive Care
- Pediatric Critical Care Medicine

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Cardiology
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Medical Director - Cardiovascular ICU, Lucile Packard Children's Hospital, (2023- present)
- Medical Director - CVICU Consultation Service, Lucile Packard Children's Hospital, (2017- present)
- Associate Program Director - Pediatric Cardiology Fellowship, Lucile Packard Children's Hospital, (2018-2020)
- Associate Medical Director - Cardiovascular ICU, Lucile Packard Children's Hospital, (2020-2023)

PROFESSIONAL EDUCATION

- Residency: Cincinnati Children's Hospital Medical Center Pediatric Residency (2011) OH
- Fellowship: Cincinnati Children's Hospital Medical Center (2014) OH
- Fellowship: LPCH/Stanford (2015) CA
- Medical Education: Georgetown University (2008) DC
- MS, University of Cincinnati, Master of Science in Clinical and Translational Research (2014)
- Board Certification: Pediatrics, American Board of Pediatrics (2011)
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2014)

Publications

PUBLICATIONS

- **Peritoneal Dialysis vs Furosemide for Prevention of Fluid Overload in Infants After Cardiac Surgery: A Randomized Clinical Trial.** *JAMA pediatrics*
Kwiatkowski, D. M., Goldstein, S. L., Cooper, D. S., Nelson, D. P., Morales, D. L., Krawczeski, C. D.
2017
- **Comparison of Ductal Stent Versus Surgical Shunt as Initial Intervention for Neonates with Pulmonary Atresia with Intact Ventricular Septum.** *Pediatric cardiology*
Puente, B. N., Mastropietro, C. W., Flores, S., Cheung, E. W., Amula, V., Radman, M., Kwiatkowski, D., Buckley, J. R., Allen, K., Loomba, R., Karki, K., Chiwane, S., Cashen, et al
2024
- **An evaluation of the outcomes associated with peritoneal catheter use in neonates undergoing cardiac surgery: A multicenter study.** *JTCVS open*
Kwiatkowski, D. M., Alten, J. A., Mah, K. E., Selewski, D. T., Raymond, T. T., Afonso, N. S., Blinder, J. J., Coghill, M. T., Cooper, D. S., Koch, J. D., Krawczeski, C. D., Morales, D. L., Neumayr, et al
2024; 19: 275-295
- **Diuretic response after neonatal cardiac surgery: a report from the NEPHRON collaborative.** *Pediatric nephrology (Berlin, Germany)*
Blinder, J. J., Alten, J., Bailly, D., Buckley, J., Clarke, S., Diddle, J. W., Garcia, X., Gist, K. M., Koch, J., Kwiatkowski, D. M., Rahman, A. K., Reichle, G., Valentine, et al
2024
- **Clinical Outcomes After Tracheostomy in Children With Single Ventricle Physiology: Collaborative Research From the Pediatric Cardiac Intensive Care Society Multicenter Cohort, 2010-2021.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Mastropietro, C. W., Sassalos, P., Riley, C. M., Piggott, K., Allen, K. Y., Prentice, E., Safa, R., Buckley, J. R., Werho, D. K., Wakeham, M., Smerling, A., Yates, A. R., Iliopoulos, et al
2024
- **Left Ventricular Strain, Arch Angulation, and Velocity-Time Integral Ratio Improve Performance of a Clinical Pathway for Fetal Diagnosis of Neonatal Coarctation of the Aorta.** *Fetal diagnosis and therapy*
Phillips, A. A., Pun, R., Algaze, C., Blumenfeld, Y. J., Chock, V. Y., Kwiatkowski, D. M., Quirin, A., Tacy, T. A., Thorson, K., Maskatia, S. A.
2024: 1-15
- **Impact of Congenital Heart Disease on the Outcomes of Very Low Birth Weight Infants.** *American journal of perinatology*
Chen, X., Bhombal, S., Kwiatkowski, D. M., Ma, M., Chock, V. Y.
2024
- **Time to Continuous Renal Replacement Therapy Initiation and 90-Day Major Adverse Kidney Events in Children and Young Adults.** *JAMA network open*
Gist, K. M., Menon, S., Anton-Martin, P., Bigelow, A. M., Cortina, G., Deep, A., De la Mata-Navazo, S., Gelbart, B., Gorga, S., Guzzo, I., Mah, K. E., Ollberding, N. J., Shin, et al
2024; 7 (1): e2349871
- **Intensive Care Unit Analgosedation After Cardiac Surgery in Children with Williams Syndrome : a Matched Case-Control Study.** *Pediatric cardiology*
Mills, M., Algaze, C., Journal, C., Suarez, G., Lechich, K., Kwiatkowski, M. D., Schmidt, A. R., Collins, R. T.
2023
- **Peritoneal catheters in neonates undergoing complex cardiac surgery: a multi-centre descriptive study.** *Cardiology in the young*
Kwiatkowski, D. M., Alten, J. A., Raymond, T. T., Selewski, D. T., Blinder, J. J., Afonso, N. S., Coghill, M. T., Cooper, D. S., Koch, J. D., Krawczeski, C. D., Mah, K. E., Neumayr, T. M., Rahman, et al
2023: 1-10
- **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
- **Early postoperative weight-based fluid overload is associated with worse outcomes after neonatal cardiac surgery.** *Pediatric nephrology (Berlin, Germany)*
Brandewie, K. L., Selewski, D. T., Bailly, D. K., Bhat, P. N., Diddle, J. W., Ghbeis, M., Krawczeski, C. D., Mah, K. E., Neumayr, T. M., Raymond, T. T., Reichle, G., Zang, H., Alten, et al
2023
 - **Clinical Predictive Tool for Pediatric Cardiac Patients on Extracorporeal Membrane Oxygenation Therapy and Ultrafiltration.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
Sedler, J., Sutherland, S. M., Uber, A. M., Jahadi, O., Ryan, K. R., Yarlagadda, V. V., Kwiatkowski, D. M.
2023
 - **Staged versus Complete Repair in Tetralogy of Fallot with Pulmonary Atresia.** *The Annals of thoracic surgery*
Boucek, K., Mastropietro, C. W., Beall, J., Keller, E., Beshish, A., Flores, S., Chlebowski, M., Yates, A. R., Choudhury, T. A., Mueller, D., Kwiatkowski, D. M., Migally, K., Karki, et al
2023
 - **Peritoneal Catheters in Neonates after Complex Heart Surgery: A Multicenter Study**
Kwiatkowski, D. M., Alten, J., Afonso, N. S., Coghill, M. T., Cooper, D. S., Koch, J. D., Krawczeski, C. D., Mah, K., Neumayr, T., Rahman, F., Raymond, T. T., Reichle, G., Selewski, et al
SPRINGER.2023: S10-S11
 - **The development and efficacy of a paediatric cardiology fellowship online preparatory course.** *Cardiology in the young*
Motonaga, K. S., Sacks, L., Olson, I., Balasubramanian, S., Chen, S., Peng, L., Feinstein, J. A., Silverman, N. H., Hanley, F. L., Axelrod, D. M., Krawczeski, C. D., Arunamata, A., Kwiatkowski, et al
2022: 1-6
 - **Neonatal Congenital Heart Disease Surgical Readiness and Timing** *PEDIATRICS*
Kwiatkowski, D. M., Ball, M. K., Savorgnan, F. J., Allan, C. K., Dearani, J. A., Roth, M. D., Roth, R. Z., Sexson, K. S., Tweddell, J. S., Williams, P. K., Zender, J. E., Levy, V. Y.
2022; 150
 - **Criteria for Early Pacemaker Implantation in Patients With Postoperative Heart Block After Congenital Heart Surgery.** *Circulation. Arrhythmia and electrophysiology*
Duong, S. Q., Shi, Y., Giacone, H., Navarre, B., Gal, D., Han, B., Sganga, D., Ma, M., Reddy, C. D., Shin, A., Kwiatkowski, D. M., Dubin, A. M., Scheinker, et al
2022: e011145
 - **Procedural Outcomes of Pulmonary Atresia Intact Ventricular Septum in Neonates: A Multicenter Study.** *The Annals of thoracic surgery*
Cheung, E. W., Mastropietro, C. W., Flores, S., Amula, V., Radman, M., Kwiatkowski, D., Puente, B. N., Buckley, J. R., Allen, K., Loomba, R., Kakri, K., Chiwane, S., Cashen, et al
2022
 - **Pulmonary Atresia with Intact Ventricular Septum: Midterm Outcomes from a Multicenter Cohort.** *Pediatric cardiology*
Iliopoulos, I., Mastropietro, C. W., Flores, S., Cheung, E., Amula, V., Radman, M., Kwiatkowski, D., Puente, B. N., Buckley, J. R., Allen, K. Y., Loomba, R., Karki, K. B., Chiwane, et al
2022
 - **Modifying the Renal Angina Index for Predicting AKI and Related Adverse Outcomes in Pediatric Heart Surgery.** *World journal for pediatric & congenital heart surgery*
Gist, K. M., SooHoo, M., Mack, E., Ricci, Z., Kwiatkowski, D. M., Cooper, D. S., Krawczeski, C. D., Alten, J. A., Goldstein, S. L., Basu, R. K.
2022; 13 (2): 196-202
 - **Direct Discharge to Home From the Pediatric Cardiovascular ICU.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Gal, D. B., Kwiatkowski, D. M., Cribb Fabersunne, C., Kipps, A. K.
1800
 - **Postoperative Acute Kidney Injury in Williams Syndrome Compared With Matched Controls.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Yokota, R., Kwiatkowski, D. M., Journel, C., Adamson, G. T., Zucker, E., Suarez, G., Lechich, K. M., Chaudhuri, A., Collins, R. T.

2022

- **Fluid Accumulation After Neonatal Congenital Cardiac Surgery; Clinical Implications and Outcomes.** *The Annals of thoracic surgery*
Bailly, D. K., Alten, J. A., Gist, K. M., Mah, K. E., Kwiatkowski, D. M., Valentine, K. M., Diddle, J. W., Tadphale, S., Clarke, S., Selewski, D. T., Banerjee, M., Reichle, G., Lin, et al
2022
- **Impact of a clinical pathway on acute kidney injury in patients undergoing heart transplant.** *Pediatric transplantation*
Algaze, C. A., Margetson, T. D., Sutherland, S. M., Kwiatkowski, D. M., Maeda, K., Navaratnam, M., Samreth, S. P., Price, E. P., Zook, N. B., Yang, J. K., Hollander, S. A.
2021: e14166
- **Maternal Hyperoxygenation Testing in Fetuses with Hypoplastic Left-Heart Syndrome: Association with Postnatal Atrial Septal Restriction.** *Fetal diagnosis and therapy*
Mardy, C., Kaplinski, M., Peng, L., Blumenfeld, Y. J., Kwiatkowski, D. M., Tacy, T. A., Maskatia, S. A.
2021: 1-12
- **Standardized Training for Physicians Practicing Pediatric Cardiac Critical Care.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Tabbutt, S., Krawczeski, C., McBride, M., Amirmovin, R., Owens, G., Smith, A., Wolf, M., Rhodes, L., Hehir, D., Asija, R., Teele, S. A., Ghanayem, N., Zyblewski, et al
2021
- **Learning networks in pediatric heart failure and transplantation.** *Pediatric transplantation*
O'Connor, M. J., Lorts, A., Kwiatkowski, D., Butts, R., Barnes, A., Jeewa, A., Knoll, C., Fenton, M., McQueen, M., Cousino, M. K., Shugh, S., Rosenthal, D. N.
2021: e14073
- **A Contemporary Study of Pathologic Kidney Findings in Congenital Heart Disease**
DeRussy, B., Miller, P., Kambham, N., Kwiatkowski, D., Salmi, D., Troxell, M.
SPRINGERNATURE.2021: 1000–1001
- **Hyperoxia During Cardiopulmonary Bypass Is Associated With Mortality in Infants Undergoing Cardiac Surgery.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Beshish, A. G., Jahadi, O., Mello, A., Yarlagadda, V. V., Shin, A. Y., Kwiatkowski, D. M.
2021
- **A Fetal Risk Stratification Pathway for Neonatal Aortic Coarctation Reduces Medical Exposure.** *The Journal of pediatrics*
Maskatia, S. A., Kwiatkowski, D., Bhombal, S., Davis, A. S., McElhinney, D. B., Tacy, T. A., Algaze, C., Blumenfeld, Y., Quirin, A., Pun, R.
2021
- **Prevalence and Risk Factors Associated with Renal Dysfunction in Patients with Single Ventricle Congenital Heart Disease after Fontan Palliation** *CONGENITAL HEART DISEASE*
Patel, S. R., Kwiatkowski, D. M., Andrei, A., Devareddy, A., Shi, H., Krawczeski, C. D., Ebert, N., Deal, B. J., Langman, C. B., Marino, B. S.
2020; 15 (4): 181–95
- **Characteristics and Surgical Outcomes of Patients with Late Presentation of Anomalous Left Coronary Artery from the Pulmonary Artery: A Multicenter Study.** *Seminars in thoracic and cardiovascular surgery*
Kwiatkowski, D. M., Mastropietro, C. W., Cashen, K. n., Chiwane, S. n., Flores, S. n., Iliopoulos, I. n., Karki, K. B., Migally, K. n., Radman, M. R., Riley, C. M., Sassalos, P. n., Smerling, J. n., Costello, et al
2020
- **The Use of Clevidipine for Hypertension in Pediatric Patients Receiving Mechanical Circulatory Support.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Wu, M. n., Ryan, K. R., Rosenthal, D. N., Jahadi, O. n., Moss, J. n., Kwiatkowski, D. M.
2020
- **Systemic Absorption of Lidocaine from Continuous Erector Spinae Plane Catheters After Congenital Cardiac Surgery: A Retrospective Study.** *Journal of cardiothoracic and vascular anesthesia*
Caruso, T. J., Lin, C. n., O'Connell, C. n., Weiss, D. n., Md, G. B., Wu, M. n., Kwiatkowski, D. n., Maeda, K. n., Tsui, B. C.
2020

- **Parents Request Withdrawing Feeding From Neurologically Impaired Newborn.** *The Annals of thoracic surgery*
Kwiatkowski, D. M., Fifer, C. G., Cohen, M. S.
2019; 108 (5): 1280–82
- **Rasburicase versus intravenous allopurinol for non-malignancy-associated acute hyperuricemia in paediatric cardiology patients.** *Cardiology in the young*
Moss, J. D., Wu, M., Axelrod, D. M., Kwiatkowski, D. M.
2019: 1–5
- **Vasoplegia after pediatric cardiac transplantation in patients supported with a continuous flow ventricular assist device.** *The Journal of thoracic and cardiovascular surgery*
Sacks, L. D., Hollander, S. A., Zhang, Y., Ryan, K. R., Ford, M. A., Maeda, K., Murray, J. M., Almond, C. S., Kwiatkowski, D. M.
2019
- **Intraoperative Methadone Is Associated with Decreased Perioperative Opioid Use Without Adverse Events: A Case-Matched Cohort Study.** *Journal of cardiothoracic and vascular anesthesia*
Robinson, J. D., Caruso, T. J., Wu, M. n., Kleiman, Z. I., Kwiatkowski, D. M.
2019
- **Nephrotoxin exposure and acute kidney injury in critically ill children undergoing congenital cardiac surgery** *PEDIATRIC NEPHROLOGY*
Uber, A. M., Montez-Rath, M. E., Kwiatkowski, D. M., Krawczeski, C. D., Sutherland, S. M.
2018; 33 (11): 2193–99
- **Association of dead space ventilation and prolonged ventilation after repair of tetralogy of Fallot with pulmonary atresia.** *The Journal of thoracic and cardiovascular surgery*
Koth, A. M., Kwiatkowski, D. M., Lim, T. R., Bauser-Heaton, H., Asija, R., McElhinney, D. B., Hanley, F. L., Krawczeski, C. D.
2018
- **First-stage palliation strategy for univentricular heart disease may impact risk for acute kidney injury** *CARDIOLOGY IN THE YOUNG*
Goldstein, B. H., Goldstein, S. L., Devarajan, P., Zafar, F., Kwiatkowski, D. M., Marino, B. S., Morales, D. S., Krawczeski, C. D., Cooper, D. S.
2018; 28 (1): 93–100
- **Comprehensive Management Considerations of Select Noncardiac Organ Systems in the Cardiac Intensive Care Unit.** *World journal for pediatric & congenital heart surgery*
Huff, C., Mastropietro, C. W., Riley, C., Byrnes, J., Kwiatkowski, D. M., Ellis, M., Schuette, J., Justice, L.
2018; 9 (6): 685–95
- **Acute Kidney Injury in Children.** *Advances in chronic kidney disease*
Sutherland, S. M., Kwiatkowski, D. M.
2017; 24 (6): 380-387
- **Acute kidney injury in congenital heart disease.** *Current opinion in cardiology*
Gist, K. M., Kwiatkowski, D. M., Cooper, D. S.
2017
- **Acute kidney injury in pediatric patients.** *Best practice & research. Clinical anaesthesiology*
Kwiatkowski, D. M., Sutherland, S. M.
2017; 31 (3): 427-439
- **Does a Spoonful of Insulin Make the Acute Kidney Injury Go Down?** *PEDIATRIC CRITICAL CARE MEDICINE*
Kwiatkowski, D. M., Krawczeski, C. D.
2017; 18 (7): 721–22
- **Acute kidney injury and fluid overload in infants and children after cardiac surgery.** *Pediatric nephrology*
Kwiatkowski, D. M., Krawczeski, C. D.
2017
- **Fluid overload independent of acute kidney injury predicts poor outcomes in neonates following congenital heart surgery.** *Pediatric nephrology (Berlin, Germany)*
Mah, K. E., Hao, S. n., Sutherland, S. M., Kwiatkowski, D. M., Axelrod, D. M., Almond, C. S., Krawczeski, C. D., Shin, A. Y.
2017

- **Incidence, risk factors, and outcomes of acute kidney injury in adults undergoing surgery for congenital heart disease.** *Cardiology in the young*
Kwiatkowski, D. M., Price, E., Axelrod, D. M., Romfh, A. W., Han, B. S., Sutherland, S. M., Krawczeski, C. D.
2016; 1-8
- **Right Ventricular Outflow Tract Obstruction: Pulmonary Atresia With Intact Ventricular Septum, Pulmonary Stenosis, and Ebstein's Malformation.** *Pediatric critical care medicine*
Kwiatkowski, D. M., Hanley, F. L., Krawczeski, C. D.
2016; 17 (8): S323-9
- **Acute Kidney Injury and Cardiorenal Syndromes in Pediatric Cardiac Intensive Care.** *Pediatric critical care medicine*
Cooper, D. S., Kwiatkowski, D. M., Goldstein, S. L., Krawczeski, C. D.
2016; 17 (8): S250-6
- **Acute Kidney Injury Has a Long-Term Impact on Survival After Stage 1 Palliation of Univentricular Hearts-It's Not Just One and Done** *PEDIATRIC CRITICAL CARE MEDICINE*
Cooper, D. S., Goldstein, S. L., Kwiatkowski, D. M.
2016; 17 (7): 697-98
- **Dexmedetomidine Is Associated With Lower Incidence of Acute Kidney Injury After Congenital Heart Surgery.** *Pediatric critical care medicine*
Kwiatkowski, D. M., Axelrod, D. M., Sutherland, S. M., Tesoro, T. M., Krawczeski, C. D.
2016; 17 (2): 128-134
- **Training Pathways in Pediatric Cardiac Intensive Care: Proceedings From the 10th International Conference of the Pediatric Cardiac Intensive Care Society.** *World journal for pediatric & congenital heart surgery*
Anand, V., Kwiatkowski, D. M., Ghanayem, N. S., Axelrod, D. M., DiNardo, J., Klugman, D., Krishnamurthy, G., Siehr, S., Stromberg, D., Yates, A. R., Roth, S. J., Cooper, D. S.
2016; 7 (1): 81-88
- **Short QT Interval Prevalence and Clinical Outcomes in a Pediatric Population** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*
Guerrier, K., Kwiatkowski, D., Czosek, R. J., Spar, D. S., Anderson, J. B., Knilans, T. K.
2015; 8 (6): 1460-1464
- **Acute Kidney Injury After Cardiovascular Surgery in Children** *Perioperative Kidney Injury*
Kwiatkowski, D. M., Krawczeski, C. D.
Springer New York.2015; 1: 99-109
- **Improved outcomes with peritoneal dialysis catheter placement after cardiopulmonary bypass in infants** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Kwiatkowski, D. M., Menon, S., Krawczeski, C. D., Goldstein, S. L., Morales, D. L., Phillips, A., Manning, P. B., Eghtesady, P., Wang, Y., Nelson, D. P., Cooper, D. S.
2015; 149 (1): 230-236
- **Diuretics** *Handbook of Pediatric Cardiovascular Drugs*
Kwiatkowski, D. M., Donnellan, A., Cooper, D. S.
Springer London.2014; 2: 6
- **Biomarkers of acute kidney injury in pediatric cardiac patients** *BIOMARKERS IN MEDICINE*
Kwiatkowski, D. M., Goldstein, S. L., Krawczeski, C. D.
2012; 6 (3): 273-282
- **The Utility of Outpatient Echocardiography for Evaluation of Asymptomatic Murmurs in Children** *CONGENITAL HEART DISEASE*
Kwiatkowski, D., Wang, Y., Cnota, J.
2012; 7 (3): 283-288
- **A Teenager with Marfan Syndrome and Left Ventricular Noncompaction** *PEDIATRIC CARDIOLOGY*
Kwiatkowski, D., Hagenbuch, S., Meyer, R.
2010; 31 (1): 132-135
- **Catalytic asymmetric allylation of ketones and a tandem asymmetric allylation/diastereoselective epoxidation of cyclic enones** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Kim, J. G., Waltz, K. M., Garcia, I. F., Kwiatkowski, D., Walsh, P. J.

2004; 126 (39): 12580-12585

● **Antimitogenic effects of HDL and APOE mediated by cox-2-dependent IP activation** *JOURNAL OF CLINICAL INVESTIGATION*

Kothapalli, D., Fuki, I., Ali, K., Stewart, S. A., Zhao, L., Yahil, R., Kwiatkowski, D., Hawthorne, E. A., FitzGerald, G. A., Phillips, M. C., Lund-Katz, S., Pure, E., Rader, et al

2004; 113 (4): 609-618