

# CURRICULUM VITAE

## David Michael Axelrod, M.D.

Prepared: May 18, 2018

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### I. Personal Information

Lucile Packard Children's Hospital Stanford  
Department of Pediatrics, Division of Pediatric Cardiology  
Stanford University School of Medicine  
750 Welch Road, Suite 321  
Palo Alto, CA 94304  
Telephone: (415) 378-0794 (cell)  
(650) 723-7913 (office)  
Email: daxelrod@stanford.edu

### II. Professional Employment/Appointments

2017-present	Stanford University, Department of Pediatrics (Cardiology)	Clinical Associate Professor
2016-present	Lighthouse, Inc.	Lead Medical Advisor, partner and shareholder
2015-present	Stanford University, Department of Pediatrics (Cardiology)	Medical Director, CVICU Consult Service
2011-2017	Stanford University, Department of Pediatrics (Cardiology)	Clinical Assistant Professor
2008-2013	Astellas Pharmaceuticals	Consultant
2009-2011	Stanford, Pediatric Critical Care Medicine	Fellow
2006-2009	Stanford, Pediatric Cardiology	Fellow
2005-2006	University of California, San Francisco Neonatal Intensive Care Unit	Clinical Instructor
2005-2006	University of California, San Francisco Critical Care Transport Services Neonatal and Pediatric Intensive Care Units	Transport Pediatrician
2005-2006	Alta Bates Medical Center Neonatal Intensive Care Unit Berkeley, CA	Staff Pediatrician
2005-2006	Kaiser Permanente Medical Center San Francisco and Redwood City, CA	Staff Pediatrician

### III. Education

2009-2011	Lucile Packard Children's Hospital at Stanford Palo Alto, CA	Fellow, Pediatric Critical Care
2006-2009	Lucile Packard Children's Hospital at Stanford Palo Alto, CA	Fellow, Pediatric Cardiology
2003-2005	University of California, San Francisco San Francisco, CA	Resident, Pediatrics
2002-2003	University of California, San Francisco San Francisco, CA	Intern, Pediatrics
1998-2002	The Ohio State University College of Medicine Columbus, OH	M.D.
1994-1998	Dartmouth College Hanover, NH	B.A., Psychology

### IV. Licenses and Certification

2015, 2017	Recertified, Pediatric Advanced Life Support
2015, 2017	Recertified, Basic Life Support
2015, 2017	Recertified, Advanced Cardiac Life Support
2013	Certified, Advanced Cardiac Life Support
2012	Certified, American Board of Pediatrics, Pediatric Critical Care Medicine
2010	Certified, American Board of Pediatrics, Pediatric Cardiology
2009	Certified, Basic Life Support
2006	Certified, Neonatal Advanced Life Support
2005	Certified, American Board of Pediatrics, Pediatrics
2005	Certified, Pediatric Advanced Life Support

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2003 Medical Licensure, California A85299  
2003 Drug Enforcement Agency Licensure FA1677357

### V. Other Education, Websites, and Career Development

2017 Seeker Media: [Revolutionizing Heart Surgery With Virtual Reality](#); (greater than two million combined views).  
2017 CeBit 2017: Invited Keynote Speech, see: ["The Stanford Virtual Heart--Educating Medical Professionals in the 21st Century"](#)  
2016 Producer: Mixed Reality Video: [The Stanford Virtual Heart on Vimeo](#)  
2015 Junior Faculty Leadership Program, Lucile Packard Children's Hospital Stanford  
2013 Completed Stanford HRP 225: Design and Conduct of Clinical and Epidemiologic Studies, HRP 223: Data Management and Statistical Programming (SAS Enterprise Guide), HRP 259: Introduction to Probability and Statistics for Epidemiology  
2013 Completed Massive Online Open Course (MOOC): HRP 258: Introduction to Medical Statistics, Stanford University School of Medicine  
2009 Center for Advanced Pediatric Education (CAPE) at Stanford  
Simulation Instructor Program  
2008 Stanford University College of Medicine  
Health Policy, Finance and Economics for Physicians  
2008 Lucile Packard Children's Hospital at Stanford  
Extracorporeal Membrane Oxygenation Certification Course  
2007 Stanford/Packard Center for Translational Research (SPCTRM)  
Intensive Clinical Course in Research (ICCR)  
2006 Becari, A.C. Spanish Language Immersion School, Oaxaca, Mexico  
Certification of Proficiency in Spanish  
2005 University of California, San Francisco  
Extracorporeal Membrane Oxygenation Certification Course

### VI. Honors and Awards

2014-2015 Winner: Stanford "Stole of Gratitude" for faculty member most influential to Stanford Pediatric Cardiology fellows' training  
2014-2015 Winner: Clinical Award of Excellence: Junior Faculty; Lucile Packard Children's Hospital, Stanford Department of Pediatrics  
2015 Code Committee Awards (2): Acknowledgement of Excellence in Code Events  
2013-2014 Nominee: Feedback Award; Lucile Packard Children's Hospital Department of Pediatrics  
2013 Cardiology Fellows' Lecture rated one of top 3 lectures of the year (Cyanotic Heart Disease)  
2012-2013 Cardiology Fellows' Medical education Valuable Person (MVP) for outstanding contributions  
2009 American College of Cardiology Scientific Sessions, Fellows In Training (FIT) Travel Award  
2003 Awarded Attendance to Baylor College of Medicine International Conference on Heart Failure in Children and Young Adults  
2002-2005 Received Top Rank in Patient Satisfaction in Pediatric Continuity Clinic

### VII. Scholarly Publications

#### a. Peer Reviewed Articles (Original Work)

1. Mah KE, Hao S, Sutherland SM, Kwiatkowski DM, **Axelrod DM**, Almond CS, Krawczeski CD, Shin AY. Fluid overload independent of acute kidney injury predicts poor outcomes in neonates following congenital heart surgery. *Pediatr Nephrol*. 2017 Nov 11. [Epub ahead of print.]
2. Arunamata A, **Axelrod DM**, Bianco K, Balasubramanian S, Quirin A, Tacy T. Chronic antepartum maternal hyperoxygenation in a case of severe fetal Ebstein's anomaly with circular shunt physiology. *Ann Ped Card*. Aug 2017;10(3):284-287.
3. Kortz TB, **Axelrod DM**, Chisti MJ, Kache S. Clinical outcomes and mortality before and after implementation of a pediatric sepsis protocol in a limited resource setting: A retrospective cohort study in Bangladesh. *PLoS One*. 2017 Jul 28;12(7):e0181160. doi: 10.1371/journal.pone.0181160. eCollection 2017.

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4. Ceresnak SR, **Axelrod DM\***, Sacks LD, Motonaga KS, Johnson ER, Krawczeski CD. Advances in Pediatric Cardiology Boot Camp: Boot Camp Training Promotes Fellowship Readiness and Enables Retention of Knowledge. *Pediatr Cardiol.* 2017 Feb 4. doi: 10.1007/s00246-016-1560-y. [Epub ahead of print]. *\*I am a founding member of the Boot Camp, participated in study design, taught at the Boot Camp, assisted in manuscript review and editing.*
5. Algaze CA, Koth AM, Faberowski LW, Hanley FL, Krawczeski CD, **Axelrod DM.** Acute Kidney Injury in Patients Undergoing the Extracardiac Fontan Operation With and Without the use of Cardiopulmonary Bypass. *Pediatr Crit Care Med.* 2017, Jan 18(1):34-43.
6. Arunamata A, **Axelrod DM\***, Kipps AK, McElhinney DB, Shin AY, Hanley FL, Olson IL, Roth SJ, Selamet Tierney ES. Practice Patterns in Postoperative Echocardiographic Surveillance after Congenital Heart Surgery in Children: A Single Center Experience. *J Pediatr.* 2016 Oct 28. *\*Contributed to study design, performed manuscript review and edits, assisted in writing final manuscript.*
7. Koth AM, **Axelrod DM\***, Reddy S, Roth SJ, Tacy TA, Punn R. Institution of Veno-arterial Extracorporeal Membrane Oxygenation Does Not Lead to Increased Wall Stress in Patients with Impaired Myocardial Function. *Pediatr Cardiol.* 2016, Dec 22. *\*Contributed to study design, assisted in parameter selection for study, assisted in writing manuscript and performed extensive edits of final manuscript.*
8. Kwiatkowski DM, Price E, **Axelrod DM\***, Romfh AW, Han BS, Sutherland SM, Krawczeski CD. Incidence, risk factors, and outcomes of acute kidney injury in adults undergoing surgery for congenital heart disease. *Cardiol Young.* 2016 Nov 21:1-8. *\*Designed the study from the initial idea to the parameters to measure, helped create the REDCap database for data collection, assisted in writing and editing of final manuscript, assisted in creation of poster for presentation of data.*
9. **Axelrod DM**, Anglemeyer A, Sutherland SM. The authors reply. *Pediatr Crit Care Med.* 2016 Aug; 17(8): 814-5. Reply to Editorial by McMahon and Zappitelli, *Pediatr Crit Care Med.* 2016 Feb; 17(2):170-1.
10. **Axelrod DM**, Frymoyer AR, Sutherland SM. Letter to the Editor regarding "Arrhythmias in the paediatric ICU: a prospective study of the rates and predictors of arrhythmias in children without underlying cardiac disease" by Cassel-Choudhury et al. *Cardiol Young.* 2016 Jul. 15:1-2.
11. Hollander SA, **Axelrod DM\***, Bernstein D, Cohen HJ, Sourkes B, Reddy S, Magnus D, Rosenthal DN, Kaufman BD. Compassionate Deactivation of Ventricular Assist Devices in Pediatric Patients. *J Heart Lung Transplant.* 2016 May;35(5):564-7. *\*Discussed the clinical care of these patients with Dr. Hollander and encouraged the research team to describe our experience. Assisted in writing the manuscript and edited the final version.*
12. Hollander SA, Montez-Rath ME, **Axelrod DM\***, Krawczeski CD, May LJ, Maeda K, Rosenthal DN, Sutherland SM. Recovery from Acute Kidney Injury and CKD Following Heart Transplantation in Children, Adolescents, and Young Adults: A Retrospective Cohort Study. *Am J Kidney Dis.* 2016 Aug;68(2):212-8. *\*Assisted in generation of the research hypothesis and plan, helped define the ICU parameters to measure, assisted in writing and extensively edited final manuscript.*
13. Ceresnak SR, **Axelrod DM\***, Motonaga KS, Johnson ER, Krawczeski CD. Pediatric Cardiology Boot Camp: Description and Evaluation of a Novel Intensive Training Program for Pediatric Cardiology Trainees. *Pediatr Cardiol.* 2016 Jun;37(5):834-44. *\*Helped form the Boot Camp Educational Experience with Dr. Ceresnak, developed major segments of the boot camp curriculum, wrote many of the questionnaire questions, helped write the manuscript, performed extensive edits.*
14. **Axelrod DM**, Chock VY, Reddy VM. Management of the Preterm Infant with Congenital Heart Disease. *Clin Perinatol.* 2016 Mar;43(1):157-71.
15. McCammond AN, **Axelrod DM\***, Bailly DK, Ramsey EZ, Costello JM. Pediatric Cardiac Intensive Care Society 2014 Consensus Statement: Pharmacotherapies in Cardiac Critical Care Fluid Management. *Pediatr Crit Care Med.* 2016 Mar;17(3 Suppl 1):S35-48. *\*Wrote one segment (essentially 1/4) of the manuscript in collaboration with other coauthors.*
16. Kwiatkowski DM, **Axelrod DM\***, Sutherland SM, Tesoro TM, Krawczeski CD. Dexmedetomidine Is Associated With Lower Incidence of Acute Kidney Injury After Congenital Heart Surgery. *Pediatr Crit Care Med.* 2016 Feb; 17(2):128-134. *\*Participated in research question generation, helped decide which parameters to collect data on, organized REDCap database, edited final manuscript.*

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17. Frymoyer A, Su F, Grimm PC, Sutherland SM, **Axelrod DM**. Theophylline Population Pharmacokinetics and Dosing in Children Following Congenital Heart Surgery with Cardiopulmonary Bypass. *J Clin Pharmacol*. 2016 Sept; 56(9):1084-93
18. **Axelrod DM**, Sutherland SM, Anglemyer A, Grimm PC, Roth SJ. A Double-Blinded, Randomized, Placebo-Controlled Clinical Trial of Aminophylline to Prevent Acute Kidney Injury in Children Following Congenital Heart Surgery With Cardiopulmonary Bypass. *Pediatr Crit Care Med*. 2015 Dec 11. Note: see related Editorial by McMahon and Zappitelli, *Pediatr Crit Care Med*. 2016 Feb;17(2):135-43.
19. May LJ, Montez-Rath MD, Yeh J, **Axelrod DM\***, Chen S, Maeda K, Almond CS, Rosenthal DN, Hollander SA, Sutherland SM. Impact of ventricular assist device placement on longitudinal renal function in children with end-stage heart failure. *J Heart Lung Transplant*. 2016; 35 (4): 449-456\*Assisted in idea generation with Dr. Hollander and Sutherland, participated in ICU/renal parameter selection and data collection for manuscript, edited manuscript.
20. Motonaga KS, Punn R, **Axelrod DM\***, Ceresnak SR, Hanisch D, Kazmucha JA, Dubin AM. Diminished Exercise Capacity and Chronotropic Incompetence in Pediatric Patients with Congenital Complete Heart Block and Chronic Right Ventricular Pacing. *Heart Rhythm*. 2015 Mar;12(3):560-5.\*Formulated database of patient population, collected data on exercise tests and quality of life questionnaires, completed data entry for approximately 70% of the data, presented preliminary data in poster form, assisted in writing manuscript, edited final version.
21. Shin AY, Jin B, Hao S, Zhongkai H, Sutherland S, McCammond A, **Axelrod D\***, Sharek PJ, Roth SJ, Ling XB. Utility of Clinical Biomarkers to Predict Central Line Associated Bloodstream Infections After Congenital Heart Surgery. *Pediatr Infect Dis J*. 2015 Mar;34(3):251-4. \*Assisted Dr. Shin in generation of research question, edited final manuscript.
22. Bauser-Heaton H, Nguyen C, Tacy T, **Axelrod DM**. A novel approach to the management of critically ill neonatal Ebstein's anomaly: Venovenous extra corporeal membrane oxygenation to promote right ventricular recovery. *Ann Pediatr Cardiology*, 2015 Jan-Apr;8(1):67-70.
23. Punn R, **Axelrod DM\***, Sherman-Levine S, Roth S, Tacy T. Predictors of Mortality in Pediatric Patients on Venovenous Extracorporeal Membrane Oxygenation. *Pediatr Crit Care Med*. 2014 Nov;15(9):870-7. \*Participated in original idea generation with Dr. Punn, provided expert ICU opinion on parameters to measure on ECMO while ventilated in the ICU, consented and enrolled patients, collected data at the bedside, wrote the intensive care portion of the manuscript, edited the final manuscript.
24. Siehr S, Martin MH, **Axelrod D\***, Efron B, Peng L, Roth SJ, Perry S, Shin A. Outcomes Following Cardiac Catheterization After Congenital Heart Surgery. *Catheter Cardiovasc Interv*. 2014 Oct 1;84(4):622-8.\*Assisted Dr. Siehr in hypothesis formulation, edited final manuscript.
25. **Axelrod DM**, Anglemyer AT, Sherman-Levine SF, Zhu A, Grimm PC, Roth SJ, Sutherland SM. Initial Experience Using Aminophylline to Improve Renal Dysfunction in the Pediatric Cardiovascular Intensive Care Unit. *Pediatric Critical Care Medicine*. 2014 Jan;15(1):21-7.
26. **Axelrod DM** and Klugman DK, Wright GE, Chang A, Bronicki R, Roth SJ, Board Members of the Pediatric Cardiac Intensive Care Society. One Hundred Useful References in Pediatric Cardiac Intensive Care: The 2012 Update. *Pediatric Critical Care Medicine*. 2013 Oct;14(8):770-785.
27. **Axelrod DM**, Roth SJ. Pulmonary Atresia with Intact Ventricular Septum. In: UpToDate, Basow, DS (Ed), *UpToDate*, Waltham, MA, 2013.
28. Schroeder AR, **Axelrod DM**, Silverman NH, Rubesova E, Merkel E, Roth SJ. A Continuous Heparin Infusion Does Not Prevent Catheter-Related Thrombosis in Infants Following Cardiac Surgery. *Pediatric Critical Care Medicine*, 2010 Jul;11(4):489-95.

### b. Invited Peer Reviewed Articles and Case Reports

1. Anand V, Kwiatkowski DM, Ghanayem NS, **Axelrod DM\***, DiNardo J, Klugman D, Krishnamurthy G, Siehr S, Stromberg D, Yates AR, Roth SJ, Cooper DS. Training Pathways in Pediatric Cardiac Intensive Care: Proceedings From the 10th International Conference of the Pediatric Cardiac Intensive Care Society. *World J Pediatr Congenit Heart Surg*. 2016 Jan;7(1):81-8. \*Supervisory organizer of Junior Faculty and Fellows' conference at PCICS meeting, followed by coordination of manuscript and served as advisor to Anand and Kwiatkowski, edited final manuscript.

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2. **Axelrod DM**, Alten JA, Berger JT, Hall MW, Thaigarajan R, Bronicki RA. Immunologic and Infectious Diseases in Pediatric Cardiac Critical Care: Proceedings of the International Pediatric Cardiac Intensive Care Society Conference. *World J Pediatr Congenit Heart Surg.* 2015 Oct;6(4):575-87
3. Arunamata A, Perry S, Kipps AK, Vasanaawala S, **Axelrod DM**. Isolation of the right subclavian artery in a patient with d-transposition of the great arteries. *Ann Pediatr Cardiol.* 2015 May-Aug;8(2):161-3.
4. Presnell L, Maeda K, Griffin M, **Axelrod DM**. A child with purulent pericarditis and *Streptococcus intermedius* in the presence of a pericardial teratoma: An unusual presentation. *J Thorac Cardiovasc Surg.* 2014 Mar;147(3):e23-4

### c. Non-Peer Reviewed Publications

1. Interview: American College of Cardiology: "Clinical Innovator: David M. Axelrod MD, Bringing the Heart to Life with Virtual Reality." *Cardiosource*, October 2017. [Interview link here.](#)
2. Interview: American Heart Association News: "How virtual reality is changing cardiovascular care." *AHA News*, August 2017. <https://news.heart.org/virtual-reality-changing-cardiovascular-care/>
3. Chapter Author: "Blood Pressure Support," in *Neonatology, Clinical Practice and Procedures*. Stevenson, Cohen, Sunshine. 1<sup>st</sup> edition. New York; 2015.
4. Section Editor: "D-Transposition of the Great Arteries" and "L-Transposition of the Great Arteries," in *Pediatric Cardiac Intensive Care Handbook*. Jones M, Klugman D, Fitzgerald R, Kohr LM, Costello JC, Berger JT, Bronicki R, 1<sup>st</sup> edition. Washington DC; 2014.
5. "Left Ventricular Non-compaction in Barth Syndrome," in *Barth Syndrome Foundation Newsletter*, 2012.

### d. Other

1. Published photographer: Boston Children's Hospital, *Ab Initio International 2012*, NBO & the Home Visit

## VIII. Mentoring

- a. Co-Director, LPCHS Cardiology-Neonatology Combined Educational Conference (2016-2018)
- b. Director, LPCHS Pediatric Cardiology Division Medical Case Conference (2015-2016)
- c. Pediatric Cardiology Fellow Mentor: Kenneth Mah (2014-present)
- d. Director, LPCHS Pediatric Cardiology Division Journal Club (2012-2018)
- e. Assistant Director, CVICU Advanced Training Fellowship (2012-2015)
- f. Resident Coach: LPCHS Pediatric Residency Program: (2013-2017)
  1. Serve as a coach for 10 residents for their three year training; 10% salary support
- g. Resident Advisor: 2014-present, primary advisor for one pediatric resident interested in Cardiology
- h. Research Mentor:
  1. Teresa Bleakly, MD: "The effect of fluid resuscitation on cardiac function in malnourished pediatric patients in Bangladesh." (2012-2014)
- i. Clinical Mentor:
  1. Kenneth Mah, MD, Pediatric Cardiovascular Intensive Care Unit Hospitalist (2012)
- j. Scholarship Oversight Committee (SOC) member
  1. Teresa Bleakly, MD, fellow in Pediatric Critical Care Medicine (2012-2014)
  2. Nicole Yamada, MD, fellow in Neonatal Intensive Care Medicine (2013-2015)

## IX. Editorial Service

- |              |   |
|--------------|---|
| 2017         | Ad Hoc reviewer for the Journal "Pediatric Hospitalist"                           |
| 2017         | Ad Hoc reviewer for the Journal "Pediatrics"                                      |
| 2016-present | Ad Hoc reviewer for the Journal "PLOS One"  |
| 2016         | Ad Hoc reviewer for the Journal "Critical Care Nursing"                           |
| 2016         | Ad Hoc reviewer for the Journal "European Journal of Anaesthesiology"             |
| 2015-present | Ad Hoc reviewer for the Journal "Pediatric Critical Care Medicine"                |
| 2015         | Ad Hoc reviewer for Pediatric Heart Failure Symposium Manuscripts (Author: Ronald |

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- Bronicki, MD)
- 2014-present Ad Hoc reviewer for the Journal “Cardiology in the Young”  
2013 Ad Hoc editor for the “Guidelines for training in pediatric cardiac intensive care during pediatric cardiology fellowship” (Authors: Peter Laussen MD and Stephen J. Roth MD, MPH)  
2010 Ad Hoc reviewer for the Journal “Congenital Heart Disease”  
2011-present Ad Hoc reviewer for the Journal “Pediatric Anesthesia”

### X. Grants/Directed Donations

- 2018 Stanford Vice Provost for Teaching and Learning (VPTL) Innovation Grant: Blending Virtual reality and Web-based Learning for Congenital Heart Disease Education.  
2017-2018 Stanford Vice Provost for Teaching and Learning (VPTL) Teaching with technology for Online Course Development Workshop and Grant recipient.  
2016-present Oculus/Facebook funding of virtual reality congenital heart disease program: Financial donation and in-kind gifts donated to LPFCH and the Children’s Heart Center under my direction.  
2010-2014 Lucile Packard Children’s Hospital Stanford Heart Center Research Grant: Supporting the randomized, placebo-controlled, double blinded study of aminophylline to prevent acute kidney injury after cardiopulmonary bypass.

### XI. University Administrative Service

#### a. Committee Service

- 2015-2017 Stanford Pediatric Critical Care Medicine Research Grant Reviewer  
2014-2015 Performance Improvement Panel for an LPCHS physician  
2014-2017 Pediatric Cardiology Fellowship Program Milestone Committee Member  
2013-present Stanford University School of Medicine, Lane Library Clinical Liaison  
2011-2016 Lucile Packard Children’s Hospital Heart Center Simulation Program, Assistant Director  
2010 Lucile Packard Children’s Hospital Code Committee, Fellow Representative  
2009 Lucile Packard Children’s Hospital Heart Center Simulation Program  
Fellow Representative  
2009-present Lucile Packard Children’s Hospital Cardiovascular Intensive Care Unit  
Nursing Orientation Simulation Instructor  
2008-2009 Lucile Packard Children’s Hospital Heart Center Education Committee  
Fellow Representative  
2004-2005 University of California, San Francisco  
Pediatric Resident Chair, Curriculum Committee

#### b. Leadership Roles

- 2016-2018 Course Director: Stanford Pulmonary Artery Reconstruction and Right Ventricular Rehabilitation Symposium ([Link](#) to April 2018 CME Conference)  
2015-present Co-Director: Pediatric Cardiology Fellows’ Boot Camp  
2015-2018 Medical Director: LPCHS CVICU Consult Service  
2014-2018 CVICU Liaison to the Fetal Heart Center at LPCHS  
2015 Faculty Mentor: Med 223 Presentation by Stephanie Siehr, MD: “Cardiopulmonary Interactions”  
2014 Lucile Packard Children’s Hospital Pediatric CVICU Nurses’ Lecture Series: Cyanosis  
2013 Lucile Packard Children’s Hospital Pediatric CVICU Nurses’ Lecture Series: Cardiopulmonary interactions  
2013-2014 Lucile Packard Children’s Hospital Pediatric Cardiology Fellows’ Lecture Series: Epidemiology of Congenital Heart Disease  
2013-2014 Lucile Packard Children’s Hospital Pediatric Cardiology Fellows’ Lecture Series: Cyanosis  
2012-present Journal Club Leader, Division of Pediatric Cardiology, Lucile Packard Children’s Hospital  
2010 Lucile Packard Children’s Hospital Pediatric Intensive Care Unit, Fellow’s Board Review: Renal Physiology, Pathophysiology, and Medications

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- 2010 Lucile Packard Children's Hospital Pediatric Intensive Care Unit, Fellows' Orientation: Basic Electrocardiogram and Echocardiogram interpretation
- 2009 Lucile Packard Children's Hospital Pediatric Intensive Care Unit Education Series Cardiac Catheterization Basics
- 2009 Lucile Packard Children's Hospital Pediatric Cardiology Fellows' Research Series How to Write a Manuscript
- 2008 Pediatric Cardiology Fellow's Lecture: Epidemiology of Congenital Heart Disease
- 2008 Stanford Medical Student Journal Club, Med 223, Hypersensitization in Pediatric Heart Transplantation
- 2008 Stanford Pediatric Residency Morning Report: Pediatric Cardiac Procedures, I
- 2008 Stanford Pediatric Residency Morning Report: Pediatric Cardiac Procedures, II
- 2008 Stanford Cardiac Catheterization Laboratory Technicians/Staff: Pediatric Cardiac Procedures
- 2008 Lucile Packard Children's Hospital Heart Center Morbidity and Mortality: Patient O.Y.
- 2008 Lucile Packard Children's Hospital Heart Center Morbidity and Mortality: Patient D.M.
- 2007 Stanford Medical Student Journal Club, Med 223, Left Ventricular Assist Devices in Pediatrics
- 2007 Stanford Division of Pediatric Cardiology Journal Club, Adverse Effects of Dopamine on Systemic Hemodynamic Status and Oxygen Transport in Neonates After the Norwood Procedure
- 2007 Pediatric Cardiology Fellow's Lecture: Sudden Death in Children
- 2006-2008 Facilitator for Medical Student Case Discussions in Pediatric Cardiology
- 1999-2002 Instructor, USMLE Board Review, The Ohio State University College of Medicine

### **XII. Service to Professional Organizations**

#### **a. Leadership**

- 2018 Member, Program Committee for PCICS 2018 Conference
- 2017 Volunteer Physician and Supervisor: Standing Rock, North Dakota Medic Healers Council
- 2017 Member, Program Committee for PCICS 2017 Conference
- 2013-2014 Member, Program Committee for PCICS 2014 Conference
- 2010-2013 Liaison to the Board, Pediatric Cardiac Intensive Care Society
- 2011-present Board Member, Barth Syndrome Foundation

#### **b. Membership**

- 2012-present Western Society of Pediatric Cardiology member
- 2011-present Stanford Cardiovascular Research Institute (CVRI)
- 2008-present Pediatric Cardiac Intensive Care Society
- 2006-present American College of Cardiology
- 2005-present American Academy of Pediatrics
- 2002-present Alpha Omega Alpha
- 2002-present American Medical Association

### **XIII. International and Regional Meetings**

#### **a. Invited Presentations**

- 2018 "I wish I had that when I was in med school": VR Education and the Future of Healthcare, Pediatric Grand Rounds, Medical Center of Wisconsin/Herma Heart Institute, Milwaukee, WI
- 2018 Engineering and Computer Science Developments: Virtual Reality and Healthcare Education, Institute for Computational and Mathematical Engineering (ICME) Capstone Presentation
- 2018 "I wish I had that when I was in med school": VR Education and the Future of Healthcare, Pediatric Grand Rounds, University of Nebraska Medical Center, Omaha, NE
- 2018 "I wish I had that when I was in med school": The Stanford Virtual Heart: 21<sup>st</sup> Century Education in Healthcare and Sciences, 11<sup>th</sup> Center for Immersive and Simulation-based Learning (CISL) Symposium, Palo Alto, CA
- 2018 The Stanford Center for Image System Engineering (SCIEN): Workshop on Medical VR and AR: Invited presentation on The Stanford Virtual Heart, Palo Alto, CA

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- 2018 The Influencer Series: Session Roundtable Leader: “VR, Healthcare, and Education,” Menlo Park, CA.
- 2018 Panelist (3): Innovation in neonatal cardiac care—Virtual Reality; Cardiopulmonary Balancing Act; Hemodynamic Challenges in the Neonate  
Speaker: “Cost of Pediatric Cardiac Care: Return on investment?”  
Neoheart 2018, Fort Worth TX
- 2018 “I wish they had that when I was in med school: VR education and the future of healthcare,” VR in Healthcare Symposium, Harvard Medical School, Boston MA
- 2018 Workshop Facilitator: Surgical Training and Virtual Reality, VR in Healthcare Symposium, Harvard Medical School, Boston MA
- 2018 “Virtual Reality and Surgery” Breakout session, moderator, Wearable Tech + Digital Health + Neurotech Silicon Valley, Stanford University, Palo Alto CA
- 2018 “I wish I had that in med school: Virtual Reality Learning in Healthcare and the Sciences,” Speaker, Wearable Tech + Digital Health + Neurotech Silicon Valley, Palo Alto CA
- 2017 “Improving Healthcare Education Through Virtual Reality,” Expert Panelist, Oculus Connect 4, San Jose, CA; [Panel weblink here.](#)
- 2017 “The Stanford Virtual Heart: Educating Medical Professionals in the 21<sup>st</sup> Century,” VRBase, Amsterdam, Holland
- 2017 W2O Group (Healthcare Consulting): “The Stanford Virtual Heart: Educating Medical Professionals in the 21<sup>st</sup> Century,” San Francisco, CA
- 2017 Western Society of Pediatric Cardiology Conference: “Hands-on Demo: The Stanford Virtual Heart,” Seattle, WA
- 2017 Pediatric Grand Rounds: Department of Pediatrics, Lucile Packard Children’s Hospital Stanford. “Caring for the Resistance: Experiences at Standing Rock, North Dakota”
- 2017 Pediatric Academic Society Meeting, San Francisco, CA  
Technology Innovation in Pediatrics: Virtual Reality Congenital Heart Disease Education  
“The Stanford Virtual Heart: Educating Medical Professionals in the 21<sup>st</sup> Century”
- 2017 Pediatric Grand Rounds, Zuckerberg San Francisco General Hospital Department of Pediatrics “Caring for the Resistance: Experiences at Standing Rock, North Dakota”
- 2017 Stanford Big Data in Biomedicine Conference: featured demonstration and interview: “The Stanford Virtual Heart: Educating Medical Professionals in the 21<sup>st</sup> Century”
- 2017 Johns Hopkins Center for Talented Youth Science, featured speaker: “Pediatric Cardiology, a career with science, technology, and taking care of kids”
- 2017 Stanford MedX: Workshop presentation: “The Stanford Virtual Heart, Educating Medical Professionals in the 21<sup>st</sup> Century”
- 2017 CeBIT (International European Technology Conference): “The Stanford Virtual Heart: Educating Medical Professionals in the 21<sup>st</sup> Century.” See: [CeBIT](#)
- 2017 Pediatric Grand Rounds, University of California San Francisco, Benioff Children’s Hospital Department of Pediatrics: “Caring for the Resistance: Experiences at Standing Rock, North Dakota”
- 2016 8<sup>th</sup> World Congress on Pediatric Intensive and Critical Care, Toronto, ON  
Speaker: “Cardiac Critical Care: Single Ventricle Norwood Management”
- 2015 Pediatric Grand Rounds, Kaiser Permanente Medical Center, Oakland, CA  
“Pediatric Cardiac Emergencies”
- 2013 Advances in Fetal and Neonatal Care: “Frontiers in Hypoplastic Left Heart Syndrome: The Fetus, the Child, and Beyond.” Stanford, CA.
- 2013 Clinical Concepts and Conundrums in Pediatric Hospital Medicine, Denver Children’s Hospital, Denver, CO. “Pediatric Cardiac Emergencies”
- 2012 Invited co-organizer and co-moderator: Junior Faculty/Fellow Reception, PCICS 2012, Miami, FL.
- 2012 Case presentation: “Arrhythmias in the CVICU,” PCICS 2012, Miami, FL.
- 2012 San Francisco Bay Area Pediatric Nurse Practitioner’s Conference (NAPNAP): “Combined PNP and Physician Care of Congenital Heart Disease,” Stanford, CA.
- 2012 Case Presentation for the 2012 Kovitz Lecture: ECMO for refractory atrial flutter and left



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- atrial hypertension, Stanford, CA.
- 2012 Stanford Pediatric Cardiac Anesthesiology Academic Meeting: “Can Aminophylline Prevent Acute Kidney Injury in Children who Undergo Cardiopulmonary Bypass?”
- 2011 Astellas Pharmaceuticals, US; Investigator’s Meeting: Protocol Review, Miami, FL.
- 2011 Lecture: Duke Children’s Hospital: “A Continuous Heparin Infusion Does Not Prevent Catheter-Related Thrombosis in Infants Following Cardiac Surgery,” Durham, NC.
- 2011 Grand Rounds: Santa Clara Valley Medical Center: “Outpatient Management of Congenital Heart Disease; A Practical Approach,” San Jose, CA.
- 2010 Lecture: The Children’s Hospital of Philadelphia; “A Continuous Heparin Infusion Does Not Prevent Catheter-Related Thrombosis in Infants Following Cardiac Surgery,” Philadelphia, PA.
- 2010 Pediatric Cardiac Intensive Care Society; Moderator: Fellows and Junior Faculty Reception, Miami, FL.
- 2010 California Perfusion Society Symposium on Mechanical Support, Presentation: Pediatric Ventricular Assist Devices, Reno, NV.
- 2009 Astellas Pharmaceuticals United States (APUS) National Educational Lecture: Hyponatremia and Fluid Management in Pediatrics, webinar.
- 2009 Grand Rounds: “Pediatric Cardiology for the General Practitioner,” National College of Naturopathic Medicine, Portland, OR.

### **b. Other Presentations**

- 2017 Pediatric Cardiac Intensive Care Society, Session Moderator: “Necessity is the Mother of Innovation”
- 2016 Pediatric Cardiac Intensive Care Society, Session Moderator: Single Ventricle Palliation
- 2016 Western Society of Pediatric Cardiology Conference, Panelist: Fellow Interesting Case Presentations
- 2014 Pediatric Cardiac Intensive Care Society, Session Moderator: Immunologic and Infectious Diseases in the CICU
- 2014 Pediatric Cardiac Intensive Care Society, Abstract Reviewer and Moderator for Poster Session
- 2014 Poster, Pediatric Cardiac Intensive Care Society: Advance Directives in Adult Congenital Heart Disease
- 2014 Poster, Pediatric Cardiac Intensive Care Society: Acute Kidney Injury in Patients Undergoing the Extracardiac Fontan Procedure
- 2014 Poster, Pediatric Cardiac Intensive Care Society: Dexmedetomidine is Associated with Lower Rates of Acute Kidney Injury in Congenital Heart Surgery
- 2014 Poster, Pediatric Cardiac Intensive Care Society: Interstage Nutritional Interventions Improve Growth and Shorten Length of Stay in Norwood Patients Undergoing Glenn at Four Months of Age
- 2014 Poster, Pediatric Cardiac Intensive Care Society: Case Study: A Novel Approach to the Management of Neonatal Ebstein’s Disease: Venovenous ECMO to Allow Right Ventricular Recovery
- 2014 Poster, Pediatric Cardiac Intensive Care Society: Case Study: The Borderline Left Heart
- 2013 Poster and Abstract: Initial Experience with Aminophylline to treat Acute Kidney Injury in the Cardiovascular Intensive Care Unit. Western Society of Pediatric Cardiology, Monterey, CA.
- 2013 Abstract: “Predictors of Mortality in Pediatric Patients on Venous-arterial Extracorporeal Membrane Oxygenation.” American College of Cardiology, 2013
- 2012 Abstract Presentation, Professor Rounds: “Initial experience using aminophylline to modulate renal dysfunction in the pediatric cardiovascular intensive care unit,” PCICS 2012
- 2009 Poster: Athlete’s Heart, Cardiomyopathy, and Sudden Death Conference at Stanford
- 2009 Poster: American College of Cardiology Scientific Session
- 2007 California Pacific Medical Center, Bay Area Research Symposium, Poster
- 2006 Stanford Pediatric Cardiology Division Research Presentation

**CURRICULUM VITAE**  
**David Michael Axelrod, M.D.**

Prepared: May 18, 2018

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**c. CME Courses Attended**

2018 Stanford Pulmonary Artery Reconstruction and Right Ventricular Rehabilitation Symposium  
(Course Director), Palo Alto, CA

2018 Neoheart, Fort Worth, TX

2017 Pediatric Cardiac Intensive Care Society, Washington, D.C.

2017 World Congress of Pediatric Cardiology and Cardiac Surgery, Barcelona, Spain

2017 Pediatric Academic Society Meetings, San Francisco, CA

2017 Stanford Med-X Conference, Palo Alto, CA

2017 Western Society of Pediatric Cardiology, Seattle, WA

2017 CeBIT: European International Technology Conference, Hannover, Germany

2016 Pediatric Cardiac Intensive Care Society, Miami, FL

2016 Stanford Neuro-NICU Training Course, Stanford, CA

2016 8<sup>th</sup> World Congress on Pediatric Intensive and Critical Care, Toronto, ON

2016 Western Society of Pediatric Cardiology, Park City UT

2015 Pediatric Heart Failure Symposium, San Diego, CA

2014 Pediatric Cardiac Intensive Care Society, Miami, FL

2013 Western Society of Pediatric Cardiology, Monterey CA

2012 Pediatric Cardiac Intensive Care Society, Miami, FL

2012 Evolving Concepts in the Management of Complex Congenital Heart Disease, San Diego, CA

2011 Presenting Data and Information, Edward Tufte Seminar, Oakland, CA

2010 Pediatric Cardiac Intensive Care Society, Miami, FL

2009 American College of Cardiology Scientific Session, Orlando, FL

2008 Pediatric Cardiovascular Disease, Children's Hospital of Philadelphia, Scottsdale, AZ

2008 St. Jude Pediatric Cardiology Fellows Conference on Pacing, Boston, MA

2008 Pediatric Cardiac Intensive Care Society, Miami, FL

2006 American Heart Association Scientific Sessions, Chicago, IL

2005 American Academy of Pediatrics National Conference, San Francisco, CA

2003 International Conference on Heart Failure in Children & Young Adults, Houston, TX