

Curriculum Vitae

Last Updated: 04/11/2018

PERSONAL DATA

Name: Daniel A. Cox
Birth Place: LaGrange, IL
Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
1996 - 2000	B.S.	George Washington University (Major: Biology; Minor: Psychology) Washington, DC
2003 - 2007	D.O.	Des Moines University (Osteopathic Medicine) Des Moines, IA
2007 - 2008	Intern	Maine Medical Center (Internal Medicine-Pediatrics) Portland, ME
2008 - 2010	Resident	Maine Medical Center (Internal Medicine-Pediatrics) Portland, ME
2010 - 2011	Chief Resident	Maine Medical Center (Internal Medicine-Pediatrics) Portland, ME
2011 - 2014	Fellow	Children's Hospital of Wisconsin (Pediatric Cardiology) Milwaukee, WI
2014 - 2015	Fellow	Medical College of Wisconsin (Adult Congenital Cardiology) Milwaukee, WI

BOARD CERTIFICATIONS

08/15/2011 - 08/15/2021 American Board of Internal Medicine, Certified
10/18/2012 - 10/18/2022 American Board of Pediatrics (Pediatrics), Certified
11/02/2016 - 11/02/2026 American Board of Pediatrics (Sub: Pediatric Cardiology), Certified
11/07/2017 - 11/07/2027 American Board of Internal Medicine (Sub: Adult Congenital Heart Disease),
Certified

CURRENT LICENSES/CERTIFICATIONS

2002 NIH IRB Training-Human Subjects Research: Certification
2007 - 2020 CITI - Course in The Protection of Human Research Subjects
2015 - 2020 State of Utah: State License (UT) - Osteopathic Physician (DO)
2016 - 2019 State of Idaho: State License - Osteopathic Physician (DO)
2016 - 2019 State of Idaho Board of Pharmacy: Controlled Substance (ID) - Osteopathic
Physician (DO)
2017 - 2019 Advanced Cardiac Life Support
2017 - 2019 Basic Life Support
2017 - Present Fellow of the American College of Cardiology (FACC):
Description: Fellow of the American College of Cardiology

ACADEMIC HISTORY

Internal Medicine (Cardiovascular Medicine), 12/01/2015 - Present

12/01/2015 Hire, Adjunct Track, Adjunct Assistant Professor

Pediatrics (Pediatric Cardiology), 08/01/2015 - Present

08/01/2015 Hire, Clinical/(Clinical) Track, Assistant Professor (Clinical)

PROFESSIONAL EXPERIENCE

Full-Time Positions

1998 - 2003 Clinical Research Coordinator/Bone Densitometrist, Coeur d'Alene Arthritis Clinic, Coeur d'Alene, ID

2010 - 2011 Clinical Instructor, Department of Internal Medicine-Pediatrics, Tufts University School of Medicine, Boston, MA

2011 - 2015 Clinical Instructor, Department of Pediatrics, Division of Cardiology, Medical College of Wisconsin, Milwaukee, WI

2015 - Present Adjunct Assistant Professor, Department of Internal Medicine, University of Utah, Salt Lake City, UT

2015 - Present Assistant Professor, Department of Pediatrics, University of Utah, Salt Lake City, UT

Reviewer Experience

Reviewer for Circulation: Cardiovascular Quality and Outcomes

Reviewer for Pediatric Cardiology

SCHOLASTIC HONORS

1996 Scholar Grant, George Washington University, Washington, DC

1996 - 2000 Scottish Rite Scholarship, George Washington University, Washington, DC

1997 - 2000 Board of Trustees Scholarship, George Washington University, Washington, DC

1998 Participant of the Tau Kappa Epsilon Leadership Academy IX (1 of 24 participants from 272 chapters in North America)

1999 Tidewater-Blueridge Scholarship, Tau Kappa Epsilon Educational Foundation

1999 Order of Omega, Fraternity Honors Society

2000 B.S. with honors, cum laude, George Washington University, Washington, DC

2004 Summer Research Fellowship, Des Moines University, Des Moines, IA

2005 National Student Osteopathic Surgical Association Educational Scholarship

2005 Academic Excellence Award, Des Moines University, Des Moines, IA

2005 Family Medicine Community Service Award, Des Moines University, Des Moines, IA

2005 Sigma Sigma Phi National Osteopathic Honors Society

2007 Outstanding Pediatric Student Award, Maine Medical Center, Portland, ME

2007 Top 10% of Class, Des Moines University, Des Moines, IA

2011 Pediatric Research Award, Maine Medical Center, Portland, ME

2013 American Academy of Pediatrics Fellowship Trainee Scholarship

2014 Teacher of the Year, Pediatric Fellow, Children's Hospital of Wisconsin, Milwaukee, WI

2014 Adult Congenital and Pediatric Cardiology (ACPC) Fellows In Training (FIT) Travel Award, American College of Cardiology

2015 AHA Heart and Stroke Walk - Top Volunteer Award

ADMINISTRATIVE EXPERIENCE

Administrative Duties

2017 - Present Director, SE Idaho ACHD Clinics (Pocatello, Idaho Falls)

Professional Organization & Scientific Activities

2005 - 2007 Chairman, Sigma Sigma Phi: Beta Chapter, Community Medicine, Des Moines

2008 - 2011 Board Member, American Academy of Pediatrics: Maine Chapter

PROFESSIONAL COMMUNITY ACTIVITIES

1996 - 2000 Volunteer & Fundraiser, Special Olympics, Alzheimer's Association of America, and the Multiple Sclerosis Society, Washington, DC

1996 - 2000 Volunteer, Miriam's Kitchen, Washington, DC

1999 - 2003 Medical Office Volunteer, Dirne Community Health Center, Free Health Clinic, Coeur d'Alene, ID

2003 - 2007 Volunteer, Children & Families of Iowa, Des Moines, IA

2007 - 2011 Volunteer, American Heart Association, Scarborough, ME

2016 Physician Lecturer, American Heart Association, Lunch and Learn - BD Medical Technology

2016 Physician Lecturer, American Heart Association, "Go Red For Women"

2016 Physician Representative, American Heart Association, Lunch and Learn - BD Medical Technology

2016 Physician Lecturer, American Heart Association, Lunch and Learn - Myriad Genetics

2016 Physician Representative, American Heart Association, Utah Heart & Stroke Walk, Salt Lake City, UT

2016 Physician Lecturer, American Heart Association, Lunch and Learn - HealthEquity

2017 Physician Lecturer, American Heart Association, Millcreek Senior Center

2017 Physician Lecturer, American Heart Association, Lunch and Learn - Associated Foods

2017 Physician Lecturer, American Heart Association, Lunch and Learn - Cardiology

2017 Physician Lecturer, American Heart Association, "Go Red For Women"

2018 Physician Lecturer, American Heart Association, Lunch and Learn - Associated Foods

2018 Physician Lecturer, American Heart Association, Lunch and Learn - Dignity Memorial

2018 Physician Lecturer, American Heart Association, Lunch and Learn - USARA Health Freedom Conference

UNIVERSITY COMMUNITY ACTIVITIES

University Hospitals & Clinics

2017 - Present Teaching Physician, University of Utah Hospitals and Clinics, Echo Review with Adult Echo Techs at U of U, Quarterly

Division Level

2016 - Present Member, Pediatric Cardiology, Clinical Competency Committee

2016 - Present Director, Pediatric Cardiology, Fellow Board Review Committee

2017 - Present Member, Pediatric Cardiology, Pathways to Leadership Committee
 2017 Physician Educator, Pediatric Cardiology, American Heart Association Lunch and Learn
 2017 Physician Educator, Pediatric Cardiology, Heart Center Nursing Workshop
 2017 - Present Director, Pediatric Cardiology, Fellow Echo Rotation

SERVICE AT PREVIOUS INSTITUTIONS

2003 - 2007 Volunteer, Des Moines University, Bone Density Screenings
 2008 - 2009 Member, Maine Medical Center, Internal Medicine Program Director Search Committee
 2008 - 2011 Member, Maine Medical Center, Internal Medicine-Pediatrics Educational Committee
 2013 - 2015 Member, Children's Hospital of Wisconsin, Medical College of Wisconsin, Intern Selection Committee
 2014 - 2015 Member, Children's Hospital of Wisconsin, Medical College of Wisconsin, Pediatric History and Physical Review Committee

CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Adult Congenital Heart Association
 American Academy of Pediatrics
 American College of Cardiology
 American Osteopathic Association
 International Society for Adult Congenital Cardiac Disease

FUNDING

Past Grants

01/01/00 - 12/31/03 Prosorba Column Treatment for Rheumatoid Arthritis and the Potential Benefits and Adverse Effects of Treatment
 Principal Investigator: Craig Wiesenhutter
 Fresenius Medical Care North America
 Role: Sub-Investigator

01/01/03 - 12/31/07 HMG-CoA Reductase Inhibitors Inhibition of Protein Geranylgeranylation in Hematopoietic Cells Implicating a Potential Treatment of Hyperproliferative Disorders
 Des Moines University
 Role: Co-Investigator

01/01/03 - 12/31/07 Protein Prenylation Inhibitors as Therapeutic Tools for the Treatment of Cancer and Prenyl Transferase Inhibitors Impairment of Blood Cell Growth
 Des Moines University
 Role: Co-Investigator

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Course and Curriculum Development

2011 ECG Review Module. Posted on the Maine Medical Center's Internal Medicine website for purpose of ECG review and interpretation for resident competency. Utilized for Tuft's Medical School introduction to ECG interpretation, Portland, ME

2016 - Present Congenital Heart Disease and Pregnancy
2016 - Present Adult Congenital Heart Disease Review Meeting

Courses Directed

2016 - Present Congenital Heart Disease and Pregnancy, Course Director, CME and MOC Credit Course
2016 - Present Adult Congenital Heart Disease Review Meeting, Course Co-Director, CME and MOC Credit Course

Course Lectures

2015 Instructor, PED: Circulation, Respiration, and Regulation - Abnormal Clinical Exam Lab,, University of Utah Pediatrics
2016 Instructor, PED: Circulation, Respiration, and Regulation - Abnormal Clinical Exam Lab, University of Utah, Pediatrics

Small Group Teaching

2017 - Present Echo Review, Pediatric Cardiology Fellows, weekly review

Trainee Supervision

Fellow

2015 - 2016 Supervisor, Krishna Velagapudi, University of Utah. Adult Cardiology Fellow Continuity Clinic
2016 - Present Supervisor, David Peritz, University of Utah. Adult Cardiology Fellow Continuity Clinic
2016 - Present Supervisor, Erik Bieging, University of Utah. Adult Cardiology Fellow Continuity Clinic

Educational Lectures

Didactic Lectures

2007 **Cox D.** Osteoporosis Cracks Me Up! Maine Medical Center, Portland, ME
2007 **Cox D.** Serum Amyloid A: An Early and Accurate Marker of Neonatal Sepsis. Maine Medical Center, Portland, ME
2008 **Cox D.** Breast Disease. Maine Medical Center, Portland, ME
2008 **Cox D.** Early Thimerosal Exposure and Neuropsychological Outcomes at 7 and 10 years. Maine Medical Center, Portland, ME
2008 **Cox D.** Lead Poisoning–Plumbism. Maine Medical Center, Portland, ME
2008 **Cox D.** Pediatric GERD: A Burp Gone Bad. Maine Medical Center, Portland, ME
2008 **Cox D.** Abdominal Pain: A Pain in Your Belly is a Pain in My Neck. Maine Medical Center, Portland, ME
2008 **Cox D.** Entering the Real World of Autism: The Med-Peds Perspective. Maine Medical Center, Portland, ME
2009 **Cox D.** Critical Care Neuropathy. Maine Medical Center, Portland, ME
2009 **Cox D.** Effects of Oseltamivir on Influenza Related Complications in Chronic Illness. Maine Medical Center, Portland, ME

2009 **Cox D.** Rings and Slings—Vascular That Is. Maine Medical Center, Portland, ME

2009 **Cox D.** Venturing to New Realms—Enterovirus Meningitis. Maine Medical Center, Portland, ME

2010 **Cox D.** Amyloidosis—A Concise Review. Maine Medical Center, Portland, ME

2010 **Cox D.** Boy Does This Itch—Adverse Drug Reactions. Maine Medical Center, Portland, ME

2010 **Cox D.** To Treat or Not to Treat—That is the Question—Conjunctivitis and Otitis. Maine Medical Center, Portland, ME

2010 **Cox D.** Asthma—Acute and Chronic. Maine Medical Center, Portland, ME

2011 **Cox D.** If Your LFTs Aren't High You Haven't Enjoyed Life—Interpreting LFTs. Children's Hospital of Wisconsin, Milwaukee, WI

2011 **Cox D.** The Genetics of Heart Disease—With a Focus on EP. Children's Hospital of Wisconsin, Milwaukee, WI

2011 **Cox D.** Hacking It Up—Acute and Chronic Cough. Children's Hospital of Wisconsin, Milwaukee, WI

2011 **Cox D.** Pediatric Hyperlipidemia. Children's Hospital of Wisconsin, Milwaukee, WI

2012 **Cox D.** Pediatric Hypertension. Children's Hospital of Wisconsin, Milwaukee, WI

2012 **Cox D.** Pulmonary Atresia with VSD. Children's Hospital of Wisconsin, Milwaukee, WI

2012 **Cox D.** Intraatrial Reentrant Tachycardia—What is Still to Come. Children's Hospital of Wisconsin, Milwaukee, WI

2013 **Cox D.** Eisenmenger Syndrome. Children's Hospital of Wisconsin, Milwaukee, WI

2014 **Cox D.** Mitral Valve Assessment: Stenosis, Regurgitation, and Everything In Between. Medical College of Wisconsin, Milwaukee, WI

2014 **Cox D.** Failing Fontan—Are We Losing This Protein Battle? PLE and More! Medical College of Wisconsin, Milwaukee, WI

2014 **Cox D.** Congenitally Corrected Transposition of the Great Arteries. Medical College of Wisconsin, Milwaukee, WI

2014 Extracardiac Complications in ACHD

2015 Life-Work Balance in Pediatric Residency

2015 Transposition of the great arteries.

2016 Mitral Valve Repair and Anticoagulation

2016 Regional Wall Motion Abnormalities

2016 Pediatric Cardiology Bootcamp: Left Heart Obstructive Lesions

2016 Old "Tets"

2016 Simple CHD Review

2017 Wall Motion Abnormalities

2017 Single Ventricle Heart Disease

2017 Aortopulmonary Window

2017 Upping Your Game: Introduction to Fellowship

2017 Aortopathy

2017 Congenital Echocardiography

2017	Atrial Switch and ACHD
2018	Simple Congenital Heart Lesions
2018	Single Ventricle Echocardiography

Department/Division Conferences

2010	HSV Esophagitis Associated with Newly Diagnosed Crohn's Disease. Maine Medical Center Research Forum, Portland, ME
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PEER-REVIEWED JOURNAL ARTICLES

1. **Cox D**, Quinn R, Moran A, Donnelly J (2010). Ductal origin of the pulmonary artery in isolation: a case series. *Pediatr Cardiol*, 31(7), 997-1001.
2. **Cox DA**, Walton K, Bartz PJ, Tweddell JS, Frommelt PC, Earing MG (2013). Predicting left ventricular recovery after replacement of a regurgitant aortic valve in pediatric and young adult patients: is it ever too late? *Pediatr Cardiol*, 34(3), 694-9.
3. **Cox DA**, Ginde S, Tweddell JS, Earing MG (2014). Outcomes of a hepatitis C screening protocol in at-risk adults with prior cardiac surgery. *World J Pediatr Congenit Heart Surg*, 5(4), 503-6.

REVIEW ARTICLES

1. **Cox DA**, Ginde S, Kuhlmann RS, Earing MG (2014). Management of the pregnant woman with Marfan syndrome complicated by ascending aorta dilation. [Review]. *Arch Gynecol Obstet*, 290(4), 797-802.

BOOK CHAPTERS

1. **Cox D**, Gudausky T (2012). Structural Cardiovascular Diseases. In *Comprehensive Review in Pediatric Critical Care*. Society of Critical Care Medicine.

OTHER (Commentary/Letters/Editorials/Case Reports/Video/Film)

Case Reports

1. **Cox DA**, Quinn RD, Moran AM (2011). Two cases of a double aortic arch with left arch atresia subtype 2 and Kommerell's diverticulum. *Cardiol Young*, 21(2), 220-1.

UNPUBLISHED POSTER PRESENTATIONS

1. **Cox D**, Thibodeau P, Barnes K (2010). *An Innovative Approach to Dyssynchronous Rotation Lengths: The Personal Learning Block*. Poster session presented at Medicine-Pediatrics Program Directors Association Annual Meeting, Baltimore, MD.

ORAL PRESENTATIONS

Meeting Presentations (Not Published Abstracts and Not Unpublished Posters)

International

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| 2012 | Cox D , Dhala A, Gudausky T, Singh A. Utilizing a Venous Collateral for Ablation of SVT in a Child with Complex Congenital Heart Disease. Heart Rhythm 33rd Annual Scientific Sessions, Boston, MA; abstract also published in Heart Rhythm, 9(5), Abstract Supplement, AB23-03, S51 |
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National

- 2010 **Cox D.** HSV Esophagitis Associated with Newly Diagnosed Crohn's Disease. Society of General Internal Medicine Conference, Providence, RI
- 2013 **Cox D,** Ginde S, Earing M, et al. Finding the Silent Virus–Screening Protocol for Hepatitis C Improves Detection in Adult Congenital Heart Patients. American Academy of Pediatrics Annual Meeting, Orlando, FL; oral presentation also given at the Medical College of Wisconsin Research Forum, Milwaukee, WI; poster presentation also given at the International Society for Adult Congenital Heart Disease Annual Meeting, Skamania, WA; abstract also published in Congenital Heart Disease, 8(5)

Local/Regional

- 2005 **Cox D.** Hydroxycinnamaldehyde Induces a G1 and G2/M Cell Cycle Arrest and Decreases Hematopoietic Cell Survival. Iowa Academy of Science, 117th Annual Meeting, Cornell College, Mount Vernon, IA; poster presentations also given at the 10th Annual Resident Research and Leadership Conference, AOA House of Delegates Annual Meeting, Chicago, IL and the Second Annual Research Symposium, Des Moines University, Des Moines, IA
- 2009 **Cox D.** An Alcoholic with a Severe Triple Acid-Base Disorder. Society of General Internal Medicine New England Conference, Harvard Medical School, Boston, MA
- 2017 **Cox, D.** ACHD Patched But Not Cured. American College of Cardiology Foundation. Rockies Chapter Annual Meeting, Park City, UT

Invited/Visiting Professor Presentations

Local/Regional

- 2017 Applying for Fellowship: What to Expect and How to Succeed, Internal Medicine-Pediatrics Lecture Series, Maine Medical Center, Portland, ME
- 2018 Utah Echo Society Education Meeting 2018: Congenital Echocardiogram Differences

Grand Rounds Presentations

- 2011 It's Not the Heart...It's the Brain-Neurodevelopmental Outcomes in Congenital Heart Disease. Combined Internal Medicine-Pediatrics Grand Rounds, Maine Medical Center, Portland, ME
- 2016 Adult Congenital Heart Disease, Family Practice Grand Rounds, University of Utah, SLC, UT

OTHER SCHOLARLY ACTIVITIES

Clinical Studies

- 1998 - 2003 Research Coordinator for over 80 clinical trials involving pharmaceutical therapy for Rheumatoid Arthritis, Lupus, Osteoarthritis, Gout, Raynaud's, Osteoporosis, Fibromyalgia, Lateral and Medial Epicondylitis, Psoriasis, and Psoriatic Arthritis, Coeur d'Alene Arthritis Clinic, Coeur d'Alene, ID

Other Scholarly Activities

- 2008 Created Resident Outdoor Activities Webpage for residents to post outdoor activities so others may participate, Maine Medical Center, Portland, ME

- 2009 Quality Improvement Project: Asthma evaluation—systematic review of patient charts to verify management plan corresponded to diagnosis severity. Plan instituted to ensure performed with EMR checklist and pop-up alert, Maine Medical Center Clinic, Portland, ME
- 2010 Quality Improvement Project: Chart review of diabetic patient care, including vaccines, microalbumin, optic evaluation, foot check, smoking review, BMI, aspirin use, depression assessment, management plan, blood pressure evaluation, cholesterol check, and hemoglobin A1C check per recommended guidelines. Plan instituted to ensure performed with EMR checklist and pop-up alert, Maine Medical Center Clinic, Portland, ME
- 2011 Quality Improvement Project: Created patient handout explaining cholesterol numbers, subtypes, improvement strategies, therapeutic options, and medications. Provided to all patients in clinic diagnosed with or at risk for hyperlipidemia. Programmed into patient after-visit summary, Maine Medical Center Clinic, Portland, ME
- 2013 Quality Improvement Project: Hepatitis C Screening Protocol for Adult Congenital Heart Disease Patients: Detection and Outcome Improvement, Medical College of Wisconsin, Milwaukee, WI
- 2016 Spontaneous Coronary Artery Dissection, Research Mentor to Pediatric Cardiology Fellow, Oral Presentation at the Western Society of Pediatric Cardiology
- 2017 - Present Intracranial Aneurysms in Coarctation of the Aorta - Research Mentor to Pediatric Cardiology Fellow, research in progress
- 2018 - Present Pulmonary Atresia with VSD and Coronary Sinusoids, Research Mentor to Pediatric Cardiology Fellow, research in progress