

CURRICULUM VITAE

Jennifer Gerardin MD

Assistant Professor
Department of Pediatrics
Division of Cardiology

OFFICE ADDRESS:

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Milwaukee, WI 53226

EDUCATION:

08/1998 - 05/2002 BA, University of Wisconsin, Madison, WI
08/2002 - 05/2006 MD, Medical College of Wisconsin, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

07/01/2006 - 06/30/2010 Resident, Internal Medicine - Pediatrics, Michigan State University - Grand Rapids Medical Education and Research Program, Grand Rapids, MI
07/01/2009 - 06/30/2010 Chief Resident, Internal Medicine - Pediatrics, Michigan State University - Grand Rapids Medical Education and Research Program, Grand Rapids, MI
07/01/2012 - 06/30/2015 Pediatric Cardiology Fellow, Pediatrics, Cardiology, University of Minnesota, Minneapolis, MN
07/01/2015 - 06/30/2017 Adult Congenital Heart Disease Fellow, Internal Medicine, Cardiology, Emory University, Atlanta, GA
07/01/2015 - 06/30/2017 Level III training in Cardiac MRI and Level II in Cardiac CT, Internal Medicine, Cardiology, Emory University, Atlanta, GA

FACULTY APPOINTMENTS:

07/2006 - 06/2010 Clinical Instructor Resident, Department of Medicine and Department of Pediatrics & Human Development, Michigan State University, Grand Rapids, MI
12/2010 - 06/2012 Assistant Clinical Professor, Pediatrics, Medical College of Wisconsin, Milwaukee, WI
07/2015 - 06/2016 Senior Associate, Internal Medicine, Cardiology, Emory University, Atlanta, GA
08/2017 - Present Assistant Professor, Pediatrics, Cardiology, Medical College of Wisconsin, Milwaukee, WI
02/2020 - Present Assistant Professor, Internal Medicine, Cardiovascular Medicine, Medical College of Wisconsin, Milwaukee, WI

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Internal Medicine	08/2010	None
Pediatrics	10/2010	None
Pediatric Cardiology	11/2016	None
Adult Congenital Heart Disease	10/2017	None

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
Society of Cardiac Magnetic Resonance – Level III Certification	SCMR	11/2017	None

AWARDS AND HONORS:

- 2003 Honorable Mention – Aging is a Work of Art Photography Contest , American Geriatric Society – Medical College of Wisconsin Student Chapter
- 04/2009 Internal Medicine Best Research Presentation, Grand Rapids Medical Education and Research Center Community Health Research Day
- 10/2009 Clinical Case Abstract Competition Winner, National Med - Peds Residency Association
- 06/2012 David A. Lewis Outstanding Advisor of Residents Award, Department of Pediatrics, Medical College of Wisconsin
- 06/2016 Finalist 2016 Emory Quality Conference, Emory University
- 02/2020 Employee of the Month, Herma Heart Institute
- 06/2021 Fellowship Teaching Award, Pediatric Cardiology, Medical College of Wisconsin

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

Local

- Gerardin J, Grifka R., Abdominal Aortic Thrombus in a Five – Day – Old., GRMERC Community Health Research Day (oral presentation), Grand Rapids, MI., 04/2008
- Gerardin J, Bouthillier MJ, Spoolstra M, Subramanian J, Shah R, Qadir S, Tavera C., Evaluating the Internal Medicine Resident Clinic’s Compliance with the 2002 Updated Beers Criteria and Developing Quality Improvement Strategies., GRMERC Community Health Research Day. (oral presentation), Grand Rapids, MI., 04/2009
- Gerardin J, Bouthillier MJ, Subramanian J, Spoolstra M, Evaluating the Internal Medicine Resident Clinic’s Compliance with the 2002 Updated Beers Criteria and Developing Quality Improvement Strategies: One-Year Follow Up., GRMERC Community Health Research Day. (poster presentation), Grand Rapids, MI., 04/2010
- Chung W, Gerardin J, Mitchell D, Dahl K, Stage IV Non-small Cell Lung Carcinoma in a 14-Year-Old Girl., GRMERC Community Health Research Day (oral presentation), Grand Rapids, MI, 04/2010
- Gerardin J, Menk J, Lohr J., Evaluation of cardiovascular comorbidity screening in adults with congenital heart disease., Pediatric Research Education and Scholarship symposium. (poster presentation), Minneapolis, MN., 04/2014
- Gerardin J, Menk J, Lohr J., A comparison of compliance with adult congenital heart disease (ACHD) guidelines and transition recommendations., Pediatric Research Education and Scholarship symposium. (oral presentation), Minneapolis, MN, 04/2014
- Chahla S, Valeti U, Gerardin J, Weigel B, Orchard P, Braunlin EA., Acute Myocardial Infarction after Bone Marrow Transplantation in an Adolescent., Pediatric Research Education and Scholarship symposium. (poster presentation), Minneapolis, MN., 04/2014
- Gerardin J, Lohr J, Kochilas L, Shepard C., A Quality Study: Improving quality of pulse oximetry screening for critical congenital heart disease (CCHD)., MMCGME Quality Forum. (poster presentation), Minneapolis, MN., 05/2015
- Gerardin J, Peverini C, Thomas K, Book W., Outside medical record scanning., 2016 Emory Quality Conference. (poster presentation)., Atlanta, GA., 06/2016

Regional

- Gerardin J, Davis M, Bouthillier MJ, Subramanian J, Salleva M, Spoolstra M., Compliance with the Beers Criteria in an Internal Medicine Residency Clinic and Evaluation of Quality Improvement Strategies., American College of Physicians, Michigan Chapter Meeting. (poster presentation), Kalamazoo, MI., 10/2010
- Chahla S, Valeti U, Gerardin J, Weigel B, Orchard P, Braunlin E., Acute Myocardial Infarction after Bone Marrow Transplantation in an Adolescent., Minnesota AAP Meeting. (poster presentation), Minneapolis, MN., 06/2014
- Lie A, Ginde S, Bartz PJ, Earing MG, Cohen S, Gerardin JF, Mitchell ME., Valve Sparing Aortic Root Replacement in Teenagers and Young Adults with Aortic Root Aneurysms and Bicuspid Aortic Valves Can be Equivalent to Valve Sparing of Normal Tricuspid Valves at Intermediate Follow-up., Midwest Pediatric Cardiology Society Meeting 2018 (poster presentation), Rochester, MN, 09/2018
- Lamberton J, Ginde S, Goot BH, Buelow M, Gerardin JF., Differentiating Fontan Failure Phenotypes by Cardiac Magnetic Resonance Imaging., Midwest Pediatric Cardiology Society Meeting 2018. (poster presentation), Rochester, MN, 09/2018
- Starker A, Goot BH, Gerardin JF, Ginde S, Earing MG, Increased Aortic Wall Stiffness is Predictive of

Aortic Dilation in Adult Patients Following Coarctation of the Aorta Repair., Midwest Pediatric Cardiology Society Meeting 2018. (oral presentation), Rochester, MN, 09/2018
Tori K, Ginde S, Gerardin J, Buelow M, Bartz P, Cohen S., Screen-Time Use and Perceptions and Association with Physical Activity and Effects on Quality of Life with Congenital Heart Disease., Midwest Pediatric Cardiology Society Meeting 2020 (Virtual Poster), Virtual, 09/2020

National

Gerardin J, Chung W., Stage IV Non-small Cell Lung Carcinoma in a 14-Year-Old Girl., National Med-Peds Resident's Association Meeting.(oral presentation), Washington, D.C., 10/2009
Gerardin J, St. Louis JD, Hess DJ, Braunlin EA., Acute Post-Cardiac Bypass Pancreatitis in a Neonate., American Academy Pediatrics, National Conference and Exhibition - Section on Medicine Pediatrics. (poster presentation), Orlando, FL., 10/2013
Prelicean I, Davis J, Vohra S, Gerardin J, Slaw K., Trainee-led development of a pediatric leadership curriculum., Association of Pediatric Program Directors. (poster presentation), New Orleans, LA., 04/2016
Gerardin J, Hoggard E, Shepard C, Identification of coronary artery origins in young infants with ECG-triggered cardiac computed tomography., AAP Section on Cardiology and Cardiac Surgery 2016 National Conference and Exhibition (oral presentation), San Francisco, CA, 10/2016
Ephrem G, Esmaeeli A, Gerardin J, Saraf A, Hayek SS, Jennings S, Katarbarwa A, Rodriguez III FH, Quyyumi A, Book WM., Red blood cell distribution width and outcomes in Fontan patients., American College of Cardiology. (moderated poster presentation), Washington, DC., 03/2017
Gerardin J, Raskind-Hood C, Hoffman T, Well A, Rodriguez III FH, Kalogeropoulos A, Hogue C, Book WM., Adult Congenital Heart Disease: Lost in Care., American College of Cardiology. (poster presentation), Washington, DC., 03/2017
Saraf A, De Staercke C, Rodriguez III FH, Kalogeropoulos AP, Knezevic A, Yang X, Gerardin J, Ephrem G, Hayek SS, Jennings SA, Katarbarwa A, Quyyumi A, Book WM., Biomarker profile in adults with Fontan circulation., American College of Cardiology. National Conference. (poster presentation), Washington, DC., 03/2017
Gerardin J, Pernetz MA, Ephrem G, Saraf A, Rodriguez FH, Book WM, Differentiating Subclinical Fontan Failure Phenotypes by Echocardiogram in Adults, Section on Cardiology and Cardiac Surgery 2017 National Conference and Exhibition. (oral presentation), Chicago, IL, 09/2017
Lamberton J, Ginde S, Goot BH, Buelow M, Earing MG, Rodriguez III FH, Book WM, Gerardin JF., Differentiating Fontan Failure Phenotypes by Cardiac Magnetic Resonance Imaging., The 14th Society of Pediatric Radiology Advanced Symposium on Pediatric Cardiovascular Imaging. (oral presentation), Walnut Creek, CA., 10/2018
Acori L, Kim M, Rogers T, Chongthammakun V, Thompson K, Moeller J, Thompson N, Ginde S, Kim F, Earing M, Gerardin J, Overcoming Institutional Barriers While Implementing Adult Dosing Protocols within a Large Free-Standing Children's Hospital, AAP Section on MedPeds National Conference and Exhibit 2019 (oral presentation), New Orleans, LA, 10/2019
Kim M, Acori L, Rogers T, Chongthammakun V, Thompson K, Moeller J, Thompson N, Ginde S, Kim F, Earing M, Gerardin J, Reducing Hypokalemia in Adult Congenital Heart Disease Inpatients within a Pediatric Hospital, AAP Section on Cardiology and Cardiac Surgery National Conference and Exhibit 2019 (poster presentation), New Orleans, LA, 10/2019
Chongthammakun V, Pan A, Kostelyna S, Goot B, Earing M, Gerardin J., Effect of aortic stiffness parameters by cardiac magnetic resonance on aortic dilation in patients with bicuspid aortic valve., American College of Cardiology National Conference, Virtual, 03/2020
Willis A, Segar D, Gerardin J, Schultz M, Frommelt M, Cerebrovascular event in a 9-month-old with Cyanotic Congenital Heart Disease., AAP Section on MedPeds National Conference and Exhibit 2020 (Virtual Poster), Virtual, 10/2020
Gerardin J, Not Just Big Kids: ACHD Inpatient QI., Young Physician Leadership Alliance. AAP National Conference and Exhibit 2020 (Virtual Moderated Poster), Virtual, 10/2020
Detterich JA, Taylor M, Slesnick T, DiLorenzo MP, Hlavacek AM, Lam CZ, Sachdeva S, Lang SM, Campbell, Gerardin JF, Whitehead KK, Rathod RH, Cartoski M, Menon S, Trachtenberg FL, Gongwer R, Newburger J, Goldberg C, Dorfman AL., Cardiac magnetic resonance imaging to determine single ventricle function from the single ventricle reconstruction (SVR) trial, Pediatric Academic Societies (Poster), Denver, CO, 04/2022

International

- Gerardin J, Anderson C, Grifka R, O'Rourke T, Dickens D., Catheter - Based Mechanical Thrombectomy in a Neonate with Probable Protein S and Antithrombin Deficiencies., Irish and American Pediatric Society Meeting.(oral presentation), Limerick, Ireland., 09/2008
- Gerardin J, Menk J, Pyles L, Martin C, Lohr J., Evaluation of cardiovascular comorbidity screening in adults with congenital heart disease., International Society for Adult Congenital Heart Disease – 24th Annual Course on Congenital Heart Disease in the Adult: An International Symposium. (poster presentation), Cincinnati, OH., 06/2014
- Gerardin J, Menk J, Pyles L, Martin C, Lohr J., A comparison of compliance with adult congenital heart disease (ACHD) guidelines and transition recommendations., International Society for Adult Congenital Heart Disease – 24th Annual Course on Congenital Heart Disease in the Adult: An International Symposium. (poster presentation), Cincinnati, OH., 06/2014
- Gerardin J, Sahu A, Jokhadar M., Case Series: Abnormal global longitudinal strain in adult patients with anomalous left coronary artery from the pulmonary artery., International Society for Adult Congenital Heart Disease – 26th Annual Course on Congenital Heart Disease in the Adult: An International Symposium. (poster presentation), Skamania, WA, 06/2016
- Saraf A, DeStaercke CL, Rodriguez FH, Kalogeropoulos A, Gerardin J, Hayek SS, Jennings SA, Katarawa A, Quyyumi A, Book W., Biomarker Profile in Adults with Fontan Circulation., International Society for Adult Congenital Heart Disease – 26th Annual Course on Congenital Heart Disease in the Adult: An International Symposium. (poster presentation), Skamania, WA, 06/2016
- Gerardin JF, Book WM, Sahu A., Lower extremity anasarca and junctional rhythm: Long term complications of partial anomalous pulmonary venous return repair., Society of Cardiac Magnetic Resonance conference 2018. (oral presentation), Barcelona, Spain, 02/2018
- Patel C, Ginde S, Samyn M, Gerardin J, Pulmonary atresia with intact ventricular septum (PA/IVS) with coronary cameral fistula: CMR detects myocardial compromise, Society of Cardiac Magnetic Resonance Conference 2019 (oral presentation), Seattle, WA, 02/2019
- Gerardin J, Sahu A, How to Image the Heart When it is in the Abdomen: A case of Pentalogy of Cantrell, Society of Cardiac Magnetic Resonance conference 2019 (oral presentation), Seattle, WA, 02/2019
- Chongthammakun V, Arcori L, Kim M, Rogers T, Kim F, Moeller J, Robers J, Thompson K, Katzmark L, Ginde S, Cohen S, Bartz P, Earing M, Gerardin J, Overcoming Institutional Barriers While Implementing Adult Dosing Protocols within a Large Free-Standing Children's Hospital, International Society for Adult Congenital Heart Disease - 28th Annual Course on Congenital Heart Disease in the Adult: An International Symposium. (poster presentation), Skamania, WA, 06/2019
- Chongthammakun V, Cohen S, Samyn M, Gerardin J, Serial Cardiac MRI during pregnancy high-risk pregnancy., Society of Cardiac Magnetic Resonance conference 2020 (Poster), Orlando, FL, 02/2020
- Blanch-Granada A, Samyn MM, Cava JR, Handler SS, Gerardin JF, Goot B, Hraska V, LaDisa JF, Hemodynamic evaluation of reconstructed arch geometry after Norwood procedure v. a non-operated control., 26th Congress of the European Society of Biomechanics 2021., Virtual, 07/2021
- Robers J, Andersen K, Sowinski J, Gerardin J, Cohen S, Individualized nurse led healthy lifestyle program in the Adult Congenital Heart Disease clinic, 32nd International Symposium on ACHD (Oral Abstract), Cincinnati, OH, 06/2022
- Kimber J, Miller M, Cohen S, Ginde S, Samyn M, Bartz P, Gerardin J, A Comparison of Echocardiography and Cardiac Magnetic Resonance to Determine Left Ventricular Chamber Size in Adults with Chronic Aortic Regurgitation, 32nd International Symposium on ACHD (Moderated Poster), Cincinnati, OH, 06/2022
- Tori K, Ginde S, Gerardin J, Whitfield GE, Buelow M, Andersen K, Cohen S., Screen-Time Use and Association with Physical Activity and Effects on Quality of Life in Adults with Congenital Heart Disease, 32nd International Symposium on ACHD (Poster), Cincinnati, OH, 06/2022

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Gerardin JF, Anderson CS, Armstrong AK, Grifka RG. Descending aorta thrombus in a neonate mimicking coarctation of the aorta: mechanical thrombectomy using the AngioJet® catheter. *Catheter Cardiovasc Interv.* 2013 Feb;81(2):E134-8.
2. Gerardin JF, Menk JS, Pyles LA, Martin CM, Lohr JL. Compliance with Adult Congenital Heart Disease

- Guidelines: Are We Following the Recommendations? *Congenit Heart Dis.* 2016 May;11(3):245-53.
3. Rodriguez FH 3rd, Ephrem G, Gerardin JF, Raskind-Hood C, Hogue C, Book W. The 745.5 issue in code-based, adult congenital heart disease population studies: Relevance to current and future ICD-9-CM and ICD-10-CM studies. *Congenit Heart Dis.* 2018 Jan;13(1):59-64.
 4. Gerardin J, Raskind-Hood C, Rodriguez FH 3rd, Hoffman T, Kalogeropoulos A, Hogue C, Book W. Lost in the system? Transfer to adult congenital heart disease care-Challenges and solutions. *Congenit Heart Dis.* 2019 Jul;14(4):541-548. PMID: PMC6697598
 5. Starker A, Goot BH, Gerardin JF, Ginde S, Earing MG. Increased aortic wall stiffness is predictive of aortic dilation in adult patients following coarctation of the aorta repair *Progress in Pediatric Cardiology.* 2019 Jun;(53)15-20.
 6. Sullivan RT, Gerardin JF, Frommelt PC, Gudausky TM. Congenital Left Coronary Atresia: Diagnostic Pearls and Management Challenges in Two Children Presenting with Syncope. *CASE (Phila).* 2021 Oct;5(5):280-285. PMID: PMC8530805
 7. Sow M, Ginde S, Bartz P, Cohen S, Gerardin J, Kuhn E, Jaquiss R, Litwin SB, Woods RK, Hraska V, Tweddell JS, Mitchell ME. The Supported vs Unsupported Ross in Pediatric Patients: Neoaortic Root and Ventricular Function. *Ann Thorac Surg.* 2023 Feb;115(2):453-460.
 8. Chongthammakun V, Pan AY, Earing MG, Damluji AA, Goot BH, Cava JR, Gerardin JF. The association between cardiac magnetic resonance-derived aortic stiffness parameters and aortic dilation in young adults with bicuspid aortic valve: With and without coarctation of aorta. *Am Heart J Plus: Cardiol Research and Practice.* 2022 Aug 11. (20) Epub.
 9. Beroukhim RS, Merlocco A, Gerardin JF, Tham E, Patel JK, Siddiqui S, Goot B, Farooqi K, Soslow J, Grotenhuis H, Hor K, Muthurangu V, Raimondi F. Multicenter research priorities in pediatric CMR: results of a collaborative wiki survey. *Sci Rep.* 2023 Jun 03;13(1):9022. PMID: PMC10239463
 10. Sweeney D, Cohen S, Ginde S, Gerardin J, Bartz P, Buelow M. Delivery Outcomes in Non-Tertiary Referral Centers for Women with Congenital Heart Disease *Congenital Heart Disease.* 2023;18(3):315-323.
 11. Detterich J, Taylor MD, Slesnick TC, DiLorenzo M, Hlavacek A, Lam CZ, Sachdeva S, Lang SM, Campbell MJ, Gerardin J, Whitehead KK, Rathod RH, Cartoski M, Menon S, Trachtenberg F, Gongwer R, Newburger J, Goldberg C, Dorfman AL, the Pediatric Heart Network Investigators. Cardiac Magnetic Resonance Imaging to Determine Single Ventricle Function in a Pediatric Population is Feasible in a Large Trial Setting: Experience from the Single Ventricle Reconstruction Trial Longitudinal Follow up. *Pediatr Cardiol.* 2023 Oct;44(7):1454-1461. PMID: PMC10435402
 12. Blanch-Granada A, Samyn MM, Handler SS, Gerardin JF, Goot B, Hraška V, Cava JR, LaDisa JF. Effect of Virtual Aortic Arch Reconstruction After Norwood Procedure on Cardiac Function, Energy Efficiency, and Wall Shear Stress from Multiscale Simulations *Current Cardiovascular Imaging Reports.* 2023.

Books, Chapters, and Reviews

1. Book WM, Gerardin J, Saraf A, Marie Valente A, Rodriguez F 3rd. Clinical Phenotypes of Fontan Failure: Implications for Management. *Congenit Heart Dis.* 2016 Jul;11(4):296-308.
2. Everitt IK, Gerardin JF, Rodriguez FH 3rd, Book WM. Improving the quality of transition and transfer of care in young adults with congenital heart disease. *Congenit Heart Dis.* 2017 May;12(3):242-250.
3. Gerardin JF, Earing MG. Preoperative Evaluation of Adult Congenital Heart Disease Patients for Non-cardiac Surgery. *Curr Cardiol Rep.* 2018 Jul 21;20(9):76.
4. Gerardin J, Rodriguez F, Saraf A, Book WM. Heart transplantation in adults for Fontan failure *Progress in Pediatric Cardiology.* 1 September 2016;42:17-22.
5. Gerardin JF, Cohen S. Counseling for Perinatal Outcomes in Women with Congenital Heart Disease. *Clin Perinatol.* 2022 Mar;49(1):43-53.

Editorials, Letters to Editor, Other

1. Gerardin J. Balancing ACHD and Other Cardiology Specialties: Part 1 The Journey. www.acc.org 2016 Sept 29.
2. Gerardin J, Rodriguez FH. A need for increased collaboration and awareness. AAP Section on Pediatric Trainees, News and Views. 2016 Fall. (Reprinted in Section on MedPeds Newsletter)
3. Gerardin J. Balancing ACHD and Other Cardiology Specialties: Part 2 The Balancing Act. www.acc.org 2016 Dec 19.
4. Gerardin J. Balancing ACHD and Other Cardiology Specialties: Part 3 The Future of ACHD. www.acc.org 2017 March 30.
5. Gerardin J. Med-Peds Impact on Adult Congenital Heart Disease. www.acc.org 2017 June 22.

6. Gerardin JF, Book WM, Sahu A. Number 18-03: Lower extremity anasarca and junctional rhythm: Long term complications of partial anomalous pulmonary venous return repair. <https://scmr.org/page/COW1803> Society for Cardiovascular Magnetic Resonance (SCMR). Jan 2018.
7. Gerardin JF, Sahu A. Number 18-05: How to image the heart when it is in the abdomen: A case of pentalogy of Cantrell. <https://scmr.org/page/COW1805>. Society for Cardiovascular Magnetic Resonance (SCMR). March 2018

Peer Reviewed Educational Products

1. Chisholm C, Chowdhury D, Fein M, Gerardin J, Hameed A, Kanbur V, Nguyen Q, Sivasankar S. Awareness of Congenital Heart Defects Among Healthcare Clinicians[online course]. PediaLink. American Academy of Pediatrics. <https://bit.ly/chd-awareness>. Published 9/30/2022

Non-Peer Reviewed Educational Products

1. Vohra S, Gerardin J, Davis J, Prelipcean I, Brockman S, Roach B, Qunibi D, Raymond J, Slaw K. American Academy of Pediatrics– Section on Medical Students, Residents and Fellowship Trainees presents Leadership Challenge. (10/2015)