



Nathanya Baez Hernandez, M.D.

Pediatric Cardiology Advanced 4th Year Program – Heart Failure and Transplant

Education:

M.D., Technological University of Santiago (UTESA), Dominican Republic, 1998-2003

Post-doctoral Training:

Pediatric Cardiology Fellowship, Advocate Children’s Hospital, Oak Lawn, IL, 2015-2018

Pediatric Residency, Marshfield Clinic; Marshfield, WI, 2012-2015

Pediatric Residency, Regional University Infantil Hospital Dr. Arturo Grullon; Santiago, Dominican Republic; 2004-2007



Vasu D. Gooty, M.D.

Pediatric Cardiology Advanced 4th Year Program – MRI

Education:

M.D., S.V.S. Medical College, Mahaboobnagar, India, 2000-2006

Post-doctoral Training:

Pediatric Cardiology Fellowship, University of Minnesota Masonic Children’s Hospital, MN, 2015-2018

Pediatric Residency, Virginia Tech Carilion School of Medicine, Roanoke, VA, 2012-2015

Publications:

1. **Gooty VD**, Sinaiko AR, Ryder JR, Dengel DR, Jacobs DR Jr., Steinberger J. [Association Between Carotid Intima Media Thickness, Age, and Cardiovascular Risk Factors in Children and Adolescents](#). *Metab Syndr Relat Disord*. 2018 Apr;16(3):122-126. PMID: 29412763
2. Ryder JR, Pankratz ND, Dengel DR, Pankow JS, Jacobs DR Jr, Sinaiko AR, **Gooty V**, Steinberger J. [Heritability of Vascular Structure and Function: A Parent-Child Study](#). *J Am Heart Assoc*. 2017 Feb 2;6(2).
3. Tang D, Del Nido PJ, Yang C, Zuo H, Huang X, Rathod RH, **Gooty V**, Tang A, Wu Z, Billiar KL, Geva T. [Patient-Specific MRI-Based Right Ventricle Models Using Different Zero-Load Diastole and Systole Geometries for Better Cardiac Stress and Strain Calculations and Pulmonary Valve Replacement Surgical Outcome Predictions](#). *PLoS One*. 2016 Sep 14;11(9):e0162986. PMID: 27627806
4. Tang D, Yang C, Del Nido PJ, Zuo H, Rathod RH, Huang X, **Gooty V**, Tang A, Billiar KL, Wu Z, Geva T. [Mechanical stress is associated with right ventricular response to pulmonary valve replacement in patients with repaired tetralogy of Fallot](#). *J Thorac Cardiovasc Surg*. 2016 Mar;151(3):687-694.e3. PMID: 26548998
5. **Gooty V**, Harris C, Muelenaer A, Watson B, Safford SD. [A rare case of pulmonary hyalinizing granuloma with calcification in a 5-year-old boy](#). *Journal of Pediatric Surgery Case Reports*, Volume 3, Issue 3, March 2015, Pages 123-126, ISSN 2213-5766.
6. Sánchez Fernández I, Vendrame M, Kapur K, Klehm J, Uysal S, Gedik M, An S, Jillella D, Zelener J, Syed S, **Gooty V**, Rotenberg A, Lodenkemper T. [Comparison of pediatric patients with status epilepticus lasting 5-29 min versus ≥30 min](#). *Epilepsy Behav*. 2014 Aug;37:1-6. PMID: 24949574
7. Tang D, Yang C, Geva T, Rathod R, Yamauchi H, **Gooty V**, Tang A, Kural MH, Billiar KL, Gaudette G, Del Nido PJ. [A Multiphysics Modeling Approach to Develop Right Ventricle Pulmonary Valve Replacement Surgical Procedures with a Contracting Band to Improve Ventricle Ejection Fraction](#). *Comput Struct*. 2013 Jun 1;122:78-87. PMID: 23667272
8. Yang C, Tang D, Geva T, Rathod R, Yamauchi H, **Gooty V**, Tang A, Gaudette G, Billiar KL, Kural MH, del Nido PJ. [Using contracting band to improve right ventricle ejection fraction for patients with repaired tetralogy of Fallot: a](#)

- [modeling study using patient-specific CMR-based 2-layer anisotropic models of human right and left ventricles.](#) *J Thorac Cardiovasc Surg.* 2013 Jan;145(1):285-93, 293.e1-2. PMID: 22487437
9. Olson HE, Lechpammer M, Prabhu SP, Ciarlini PD, Poduri A, **Gooty VD**, Anjum MW, Gorman MP, Loddenkemper T. [Clinical application and evaluation of the Bien diagnostic criteria for Rasmussen encephalitis.](#) *Epilepsia.* 2013 Oct;54(10):1753-60. PMID: 23980696
 10. Guilhoto LM, Lodenkemper T, **Gooty VD**, Rotenberg A, Takeoka M, Duffy FH, Coulter D, Urion D, Bourgeois BF, Kothare SV. [Experience with lacosamide in a series of children with drug-resistant focal epilepsy.](#) *Pediatr Neurol.* 2011 Jun;44(6):414-9. PMID: 21555051
 11. Vendrame M, Lodenkemper T, **Gooty VD**, Takeoka M, Rotenberg A, Bergin AM, Eksioglu YZ, Poduri A, Duffy FH, Libenson M, Bourgeois BF, Kothare SV. [Experience with rufinamide in a pediatric population: a single center's experience.](#) *Pediatr Neurol.* 2010 Sep;43(3):155-8. PMID: 20691934

Submitted:

1. **Gooty VD**, Ryder JR, Sinaiko AR, Dengel DR, Jacobs DR Jr., Prineas RJ, Steinberger J. Vascular changes associated with cardiovascular risk factors in children. *Pediatric Cardiology.* Submitted August 2017



Tarah Popp, M.D.

Pediatric Cardiology Advanced 4th Year Program – Imaging

Education:

M.D., Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen; Germany, 2005-2011

Post-doctoral Training:

Pediatric Cardiology Fellowship, Medical University of South Carolina- Charleston, SC, 2015-2018

Pediatric Residency, University of Tennessee, College of Medicine- Chattanooga, TN, 2012- 2015

Cardiothoracic Surgery Resident Universitätsklinikum Aachen, RWTH Aachen University, Germany, 2012- 2012

Publications:

1. Schnoering H, Arens J, Detering SM, Stopinski T, **Kuschel TJ**, Tolba R, Steinseifer U, Vazquez-Jimenez JF. [Development of a rabbit animal model for miniaturized heart-lung machines.](#) *ASAIO J.* 2013 Mar-Apr;59(2):152-6. PMID: 23438778
2. **Kuschel TJ**, Gruszka A, Hermanns-Sachweh B, Elyakoubi J, Sachweh JS, Vázquez-Jiménez JF, Schnoering H. [Prevention of postoperative pericardial adhesions with TachoSil.](#) *Ann Thorac Surg.* 2013 Jan;95(1):183-8. PMID: 23084416
3. Tewarie L, Goetzenich A, Hatam N, Holtmannspötter O, **Kuschel T**, Autschbach R, Menon AK. [Ultrasonic debridement of deep surgical wound infection and Mediastinitis after sternotomy.](#) *The Thoracic and Cardiovascular Surgeon.* 2013 Jan; 61(SO1)-OP242.

Pediatric Cardiology Recent Fellow Graduates



Silvestre Duran, M.D.
Pediatric Cardiology Fellowship

Education:

B.A., Ohio State University, Columbus, OH, 2009
M.D., Ohio State University College of Medicine, Columbus, OH, 2013

Postdoctoral Training:

Pediatric Residency, Children's Hospital of Michigan, Detroit, MI, 2013-2016

Publications:

1. Duran SR, Aggarwal S, Natarajan G. [The effect of transport on the physiologic stability of neonates with ductal-dependent single-ventricle lesions.](#) *J Matern Fetal Neonatal Med.* 2018 Feb;31(4):500-505. PMID: 28393581
2. Duran S. [Case 1: A 7-Year-Old with 1 Month of Ear Pain and 1 Day of Facial Weakness.](#) *Pediatr Rev.* 2016 Jun;37(6):259-61. PMID: 27252181

Research:

Myocardial Perfusion Reserve as a Marker for Transplant Coronary Vasculopathy



Richard Markus, M.D.
Pediatric Cardiology Fellowship

Education:

B.A., University of Texas, Austin, TX, 2008
M.D., Texas A&M Health Science Center College of Medicine, Round Rock, TX, 2013

Post-doctoral Training:

Pediatric Residency, St. Louis Children's Hospital Washington University, 2013-2016

Publications:

1. Srinivasan M, Pruitt C, Casey E, Dhaliwal K, DeSanto C, Markus R, Rosen A. [Quality Improvement Initiative to Increase the Use of Nasogastric Hydration in Infants With Bronchiolitis.](#) *Hosp Pediatr.* 2017 Aug;7(8):436-443. PMID: 28679563
2. Arguello AA, Fischer SJ, Schonborn JR, Markus RW, Brekken RA, Eisch AJ. [Effect of chronic morphine on the dentate gyrus neurogenic microenvironment.](#) *Neuroscience.* 2009 Mar 31;159(3):1003-10. PMID: 19356684

Submitted:

1. Rockefeller T, Markus R, Balzer D, Murphy J, Nicolas R, Eghtesady P, Manning P, Shahanavaz S. Ten-year experience of ductus arteriosus stenting versus surgical systemic to pulmonary arterial shunting for ductal dependent pulmonary blood flow at a single United States center. *Catheterization and Cardiovascular Interventions.* Submitted

Research:

Impact of Dexrazoxane on diffuse myocardial fibrosis in children who received anthracycline chemotherapy