Pediatric Cardiology Fellowship Training Program
Children’s National Hospital

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http://www.childrensnational.org/cardiology-fellowship

Program Overview
The Pediatric Cardiology Fellowship at Children’s National is an ACGME-accredited program committed to the training of outstanding physicians dedicated to the care of patients with pediatric cardiovascular disease. During the program, fellows develop skills in clinical care, research, and teaching over a 36-month period. Fellows benefit from the vast expertise of and dedicated teaching by faculty from the Division of Cardiology as well as the other programs within the Children’s National Heart Institute.

The CNHI is a multidisciplinary team comprising Cardiology, Cardiovascular Surgery, Cardiac Intensive Care, and Cardiac Anesthesia. It is a national and international referral center and is the largest congenital heart program in the mid-Atlantic region. Our diverse patient population offers a robust clinical experience in all facets of pediatric cardiology. Our research benefits from the resources of Children’s National including the Children’s Research Institute, the Sheikh Zayed Institute for Pediatric Surgical Innovation, the Children’s National Global Health Initiative, and the Clinical and Translational Science Institute, a partnership with George Washington University. We maintain strong collaborations with the National Institutes of Health’s National Heart, Lung, and Blood Institute and Washington Hospital Center. Children’s National is also a member of the Pediatric Heart Network.

Fellowship Curriculum
An approximate breakdown of the fellowship schedule is shown below:

<table>
<thead>
<tr>
<th>Weeks of Training</th>
<th>Year One</th>
<th>Year Two</th>
<th>Year Three</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research</td>
<td>6</td>
<td>23</td>
<td>23</td>
<td>53</td>
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<tr>
<td>CICU</td>
<td>4</td>
<td>6</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>Inpatient*</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>11</td>
</tr>
<tr>
<td>Consults*</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>11</td>
</tr>
<tr>
<td>Imaging</td>
<td>8</td>
<td>4</td>
<td>6</td>
<td>18</td>
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<tr>
<td>EP</td>
<td>6</td>
<td>2</td>
<td>4</td>
<td>11</td>
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<tr>
<td>Cath</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td>12</td>
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<tr>
<td>Subspecialty</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Nights</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>Vacation</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>12</td>
</tr>
</tbody>
</table>

*During the 2nd and 3rd years of training, inpt and consults are performed together
*Variations in the calendar may result in weeks not equaling 52.
Clinical Rotations
Clinical rotations include:

- Cardiology Inpatient Service (Heart and Kidney Unit (HKU))
- Inpatient Consultation Service
- Cardiac Intensive Care Unit (CICU)
- Imaging (Echo, fetal cardiology, MRI, CT)
- Cardiac Catheterization
- Electrophysiology
- Subspecialty: Adult Congenital Heart Disease; Heart Failure and Transplant; and Pulmonary Hypertension

Fellows participate in outpatient continuity clinic for one half day per week during their first year and for one full day every other week during their second and third years. Training during the third year includes a “pre-attending” on-service experience, and elective experiences are offered to tailor the year to meet individual training goals.

On call responsibilities for the cardiology fellowship are performed predominantly through a night float system, which allows for continuity of care without sacrificing time from clinical and research duties. Monday night through Saturday night coverage is provided by an in-house cardiology fellow. Saturday day shift and Sundays are covered by an additional fellow, allowing for continuity of care over the weekend. Sunday overnight call may be performed at home if the clinical service allows. Call responsibilities include coverage of cardiology service and consult patients, new consults throughout the hospital and in the Emergency Department, parent phone calls, and assisting in the Cardiac Intensive Care Unit as needed. On call fellows may also spend time performing echocardiograms and participating in cardiac catheterizations and electrophysiology procedures as they arise. Fellows are on call for approximately four weeks of night float and four additional weekends per year.

Cardiac Intensive Care Unit call is approximately every fourth night while on service in the CICU and is shared by cardiology and critical care medicine fellows. Each fellow also performs a limited number of additional cross-cover CICU calls per year. CICU call responsibilities include the primary care of all Cardiac Intensive Care Unit patients.

The cardiology fellowship program is supportive of and compliant with all ACGME duty hour standards.

Research Time
Approximately 12 of the 36 months of training are dedicated to research, mostly divided between the second and third years. Opportunities for clinical and basic science research are available with Children’s National faculty in Cardiology and other divisions as well as at the Children’s Research Institute, the Sheikh Zayed Institute for Pediatric Surgical Innovation, Washington Hospital Center, George Washington University, Georgetown University, and the National Institutes of Health. Fellows are supported to present their research at national meetings and for publication in peer-reviewed journals.

In 2010, Children’s National was awarded the prestigious Clinical and Translational Science Award (CTSA) grant from the National Center for Advancing Translational Sciences (NCATS) to establish the Clinical and Translational Science Institute at Children’s National (CTSI-CN). This was the first such funding awarded directly to a freestanding children’s hospital. Fellows benefit from statistical support for their projects through this grant. In 2020, Children’s National will open its new Research and Innovation Campus on the site of the historic former Walter Reed Army Medical Center, including the new JLABS collaboration with Johnson & Johnson.
**Fellow Research**

Our fellows have been extremely successful in their academic endeavors during their training. They routinely publish manuscripts in peer-reviewed journals and present their work at national meetings. Highlights of our fellows’ recent academic accomplishments during their time in training are shown below:

**Class of 2020**

**Publications**

**Mandell JG**, Christopher AB, Olivieri LJ, Loke YH. Diagnosis of a coronary sinus atrial septal defect by 4D flow MRI. Society of Cardiac Magnetic Resonance 2020.


**Presentations**

Jason Mandell:

Aortic arch size following repair of aortic coarctation is predictive of exercise capacity. Oral presentation at SCMR 22nd Annual Scientific Sessions 2019; Seattle, WA.

Jennifer Romanowicz:

Murine Fetal Echocardiography Shows Hydrops Fetalis in Hectd1 Mutants with Myocardial Thinning. Poster presentation at PAS Annual Meeting; Philadelphia, PA, 2020

Chronic Perinatal Hypoxia Delays Cardiac Maturation in a Mouse Model for Cyanotic Congenital Heart Disease. Moderated poster presented at the American College of Cardiology 69th Annual Scientific Sessions; Chicago, IL, March 2020.


Neonatal Supraventricular Tachycardia as a Presentation of Critical Aortic Coarctation. Poster presented at ACC Scientific Sessions 2019; New Orleans, LA.

**Awards**

Jason Mandell

Excellence in Medical Student Education 2020
Class of 2019

Publications


Presentations

Rohan Kumthekar:


Native T1 Values Can Identify Pediatric Patients with Myocarditis. Poster presentation at 2018 Society for Cardiovascular Magnetic Resonance, Barcelona, Spain.

Deepa Mokshagundam:

Cardiac Changes in Pediatric Cancer Survivors. Poster presentation at the 2019 American College of Cardiology Scientific Sessions, New Orleans, LA.

Ultra-High Frequency Echocardiography for Phenotyping Mutant Mouse Embryos with Cardiac Dysfunction. Poster presentation at the 2018 American Society of Echocardiography Scientific Sessions, Nashville, TN.

Neeta Sethi:
T2 Mapping in the Surveillance of Acute Allograft Rejection in Pediatric Cardiac Transplant Patients. Poster presentation at 2018 Society for Cardiovascular Magnetic Resonance, Barcelona, Spain.

Meghan Zimmerman:
Using GBD Data to Help Inform Priorities and Improve Care for Children with Heart Disease in LMIC. Invited oral presentation at 2018 World Congress of Cardiology and Cardiovascular Disease, Dubai.


The Global Burden of Congenital Heart Disease and Nutritional Deficiencies. Oral presentation at the 7th World Congress of Pediatric Cardiology and Cardiac Surgery (2017), Barcelona, Spain.

Global Burden of Congenital Heart Disease. Oral abstract presented at 7th World Congress of Pediatric Cardiology and Cardiac Surgery (2017), Barcelona, Spain.

Awards and Grants
Rohan Kumthekar:
Paul C. Gillette PACES Research Grant ($10,000) at Heart Rhythm Society 2019
NIH-NHLBI Grant: PeriPath: A Novel Pericardial Access Tool for Epicardial Pacing and Defibrillation
Heart Rhythm Society Young Investigator Finalist
American Heart Association Travel Award
CNHS Board of Visitors grant: “PeriTorq: A Novel Tool to Improve the Safety Profile of Cardiac Ablation Procedures in Children”
Recognition for Excellence in Medical Student Education

Deepa Mokshagundam:
Recognition for Excellence in Medical Student Education
American Academy of Pediatrics elected representative

Neeta Sethi:
Recognition for Excellence in Medical Student Education
CMR 2018 Regional Travel Award: Travel award from the Society for Cardiovascular Magnetic Resonance to attend the 2018 scientific sessions in Barcelona, Spain.

Meghan Zimmerman:
George Washington University Milken School of Public Health Scholarship.
Class of 2018

Publications


Siegel, B; Olivieri, L; Gordish-Dressman, H; Spurney, C. Myocardial Strain Using Cardiac MR Feature Tracking and Speckle Tracking Echocardiography in Duchenne Muscular Dystrophy Patients. Pediatric Cardiology. 2017.


Presentations

Nimisha Aggarwal:

Intraoperative Magnesium Reduces Postoperative Arrhythmias in Congenital Heart Surgery: Is the Effect Arrhythmia-Specific and Dose-Dependent? Oral presentation at the 2016 American Heart Association Scientific Sessions, New Orleans, LA.

CMR Images Dictate and Help Execute Treatment Plan in Catheterization Lab. Oral

Unusual Presentation for Primary Bacterial Pericarditis. Poster presentation at the American College of Cardiology 2017 Scientific Sessions.


Ashish Doshi:


Subendocardial resting perfusion defect in a case of acute fulminant myocarditis. Platform presentation, Society for Cardiovasc Magnetic Resonance, Barcelona, Spain. February 2018

Bryan Siegel:

Cardiac MRI Feature Tracking In Duchenne Muscular Dystrophy Patients More Frequently Demonstrates Decreased Myocardial Strain Associated With Late Gadolinium Enhancement Positive Segments Compared To Echocardiographic Speckle Tracking. Poster presentation at the 2016 American Heart Association Scientific Sessions, New Orleans, LA.

Awards and Grants

Ashish Doshi:

CMR 2018 Regional Travel Award: Travel award from the Society for Cardiovascular Magnetic Resonance to attend the 2018 scientific sessions in Barcelona, Spain.

American Heart Association Post-Doctoral Fellowship Grant, 2018.

Class of 2017

Publications


Presentations

James Enos:


Jacob Hartz:


The Relationship Between Clustering of Cardiovascular Health Behaviors and Physical Fitness among U.S. Adolescents - Data from the National Health and Nutrition Examination Survey.
The Triglyceride Response to a Sugar Load Parallels the Glucose Response. Poster presented at the Quality of Care and Outcomes Research (QCOR) Scientific Sessions, 2016.

Tom Loke:

Software Segmentation and Rapid Prototyping of Congenital Heart Defects with Cardiac MRI images. Presented at the Society for Pediatric Radiology 2014 Annual Meeting.

Lauren Tague:


Awards and Grants

Tom Loke:

Children’s National Research Week 2016: Honorable Mention in Clinical Research
Senior Clinical Fellowships and Advanced Training

Our program offers senior clinical fellowship opportunities in:

- Advanced Cardiac Imaging
- Electrophysiology
- Cardiac Critical Care (multiple positions)
- Research (through multiple institutional T32 awards)

Additionally, we have trained select internal candidates on an ad hoc basis as senior clinical fellows in:

- Interventional Cardiology
- Global Health (in conjunction with a Master’s of Public Health)

Our Advanced Imaging Fellowship offers training in all advanced modalities including 3D echocardiography, transesophageal echocardiography, strain imaging, fetal cardiology, cardiac MRI, and cardiac CT. Many fellows also choose to pursue formal Critical Care Medicine fellowships after completing training in cardiology. Children’s National is also proud to be one of four American Heart Association Centers of Excellence with a $4M grant including three funded rheumatic heart disease fellowship positions.

Our Electrophysiology fellowship is offered to both internal and external applicants and includes all aspects of pediatric electrophysiology training including inpatient consultation, outpatient clinics, pacemaker and defibrillator placement and revision, invasive electrophysiology including zero-radiation studies with Carto mapping, and devices programming and management. Clinical and academic experiences are based at Children’s National with supplemental invasive experience available with our partners at Washington Hospital Center.

Advanced degrees and certificates may be pursued through our affiliation with the George Washington University School of Medicine and Health Sciences. Some of our fellows have pursued Master’s of Public Health degrees at the Milken Institute School of Public Health and coursework in as a part of their academic experience.
**Academic Curriculum**

The fellowship prides itself on a robust schedule of protected time education, including formal fellow lectures, cardiology division conferences, and hospital-wide conferences. Division conferences include Surgical Conference, Catheterization Conference, Journal Club, and Critical Event Review. Fellow conferences incorporate a wide variety of both learning modalities and topics and are relevant to both a robust education in pediatric cardiology as well as the pediatric cardiology board examination. Regular fellow conferences include sessions on echocardiography, electrophysiology, cardiac critical care, core book review, surgical techniques and perspectives, pathology, embryology, and principles of outpatient management. Fellows are also encouraged to attend Pediatric Grand Rounds, Pediatric Professorial Rounds, hospital basic science research lectures, and Washington Hospital Center cardiology conferences. A sample month’s conference schedule is included below.

![Conference Schedule](image-url)
Fellows College

The Fellow College occurs during the first and second years of training and comprises three full-day retreats each year with members of various fellowship programs at Children’s National. This well-rounded curriculum includes didactic sessions in biostatistics, manuscript preparation, grant writing, and poster preparation as well as informal meetings to discuss quality improvement activities, ethics, job search skills, and contract negotiating. The FCC meets the ACGME requirements for exposure and training in these important topics. Sessions cover aspects of research, medical education, quality improvement, the business of medicine, and finding a job. Topics include:

- Basics of Biostatistics
- Design of Health Studies
- Healthcare Finance
- Navigating the IRB
- Writing an Abstract
- Poster and Oral Presentations for Scientific Meetings
- Health Advocacy
- Developing a Career Plan
- Manuscript Preparation
- CV Building
- Adult Learning Principles
- Writing Grants
- Quality Improvement Workshops
- Leading a Team
- Job Search Strategies
- Negotiating a Contract

International Opportunities

Dr. Sable has been organizing and leading medical missions to Uganda for over 12 years. What started as a single provider seeing children with heart disease has evolved into a large team including cardiologists, intensivists, anesthesiologists, nurses, perfusionists, and cardiac surgeons. Doctors at the Uganda Heart Institute are now independently performing heart surgery where no such program previously existed. Children’s National is one of four centers to be awarded an American Heart Association Strategically Focused Research Network grant building on our international research expertise. Through this network, Dr. Sable collaborates with experts from Cincinnati Children’s, University of Tennessee, and University of Washington as well as Uganda, South Africa, and Australia for basic, translational, clinical, and population health research in rheumatic heart disease. Many of our fellows have traveled to Uganda for clinical and research trips, where activities have included large-scale screening of children with unrepaired congenital heart disease, post-operative care of cardiac patients, large-scale screening of school children for rheumatic heart disease, assessing the psychosocial impact of rheumatic heart disease, interfacing with local teams to provide care, and importantly, the education of local providers. Our fellowship offers unmatched opportunities for fellows interested in a meaningful global health experience both through the above opportunities and through the Children’s National Global Health Initiative.
Children’s National Heart Institute Programs
A description of select components of the CNHI’s programs is provided below.

**Cardiac Catheterization**

Approximately 700 cardiac catheterizations are performed each year at Children’s National in our three state-of-the-art digital catheterization laboratories. We offer the full range of complex intervention, including stent placement, device occlusion of ASD/VSD, transcatheter pulmonary and tricuspid valve replacement, ductal stenting, and hybrid stage I palliation. The patient population ranges from premature neonates to adults with congenital heart disease. Our iCMR (interventional cardiac magnetic resonance imaging) suite is one of the only pediatric catheterization laboratories in the world offering MRI-guided catheterization. Fellows have the opportunity to observe and participate in multiple ongoing research projects during their cath lab rotations.

**Cardiac Intensive Care**

The CICU at Children’s National is a 26-bed state-of-the-art unit that cares for surgical and medical patients including neonates, infants, children, and adults with congenital heart disease. This 34,000 square foot unit includes state-of-the-art monitoring equipment, a fully equipped simulation room, and a comprehensive digital media room. Children’s National has a long history as a national leader in extra-corporeal membrane oxygenation (ECMO) and employs other advanced forms of mechanical support. The CICU is staffed by physicians with backgrounds in cardiology, critical care medicine, pulmonology, and anesthesiology, most with multiple fellowships.

**Cardiac MRI**

The Cardiac MRI program at Children's National is a busy clinical service, performing over 600 cardiac MRIs annually on infants, children, and adults with congenital heart disease. The cardiac MRI program is engaged in cutting-edge research efforts, working with scientists and physicists at the National Institutes of Health to create innovative imaging sequences as well as make current imaging faster and more accurate. Children's National is a national leader cardiac MRI, and our iCMR, a state-of-the-art hybrid fluoroscopy and MRI suite designed for cardiac catheterization under MRI guidance as well as image fusion techniques, allows for innovative imaging with reduced radiation exposure.

**Cardiac Procedure Recovery Unit**

The CPRU is a team of practitioners specially trained in the procedural and recovery care of infants, children, and adults undergoing cardiac catheterization, electrical cardioversion, and transesophageal and sedated transthoracic echocardiograms.
**Cardiovascular Surgery**

Over 600 cardiac operations are performed each year at Children’s National. Repair of simple and complex cardiac disease in children and adults with congenital heart disease is carried out including complex neonatal repairs in the smallest infants. Dr. Yves d’Udekem, one of the most accomplished pediatric cardiac surgeons in the world, joined Children’s National in 2020 from the Royal Children’s Hospital in Melbourne. In addition to its active clinical program, the Division of Cardiovascular Surgery maintains an active research laboratory in the Children’s Research Institute.

**Echocardiography**

The Echocardiography Laboratory was the first digital pediatric echocardiography lab in the country and performs approximately 18,000 transthoracic echocardiograms, 2,000 fetal echocardiograms, and 700 transesophageal echocardiograms per year. Activities also include telemedicine, three-dimensional echocardiography, strain and strain-rate imaging, and dyssynchrony and cardiac resynchronization studies. The Echocardiography Laboratory includes a telemedicine terminal as well as a dedicated research station with state-of-the-art software to analyze ventricular mechanics. Children’s serves as a development site for industry leaders in echocardiography and telemedicine and frequently has access to new technology before it is released to the market.

**Electrophysiology**

A wide range of invasive and non-invasive electrophysiology procedures are performed at Children’s National. State-of-the-art equipment is used in our electrophysiology laboratory, including approximately 200 ablations and 50 pacemakers and implantable defibrillators. Noninvasive testing includes pacemaker interrogation, electrocardiograms, Holter monitoring, event recorders, tilt table testing, and signal-averaged electrocardiography. The electrophysiology team is comprised of four electrophysiologists and four dedicated nurses and nurse practitioners.
**Fetal Heart Program**
The Fetal Heart Program is a leader in fetal cardiology, including first trimester imaging and a specialized Fetal Delivery Service. Fetal cardiologists collaborate with maternal-fetal medicine specialists and obstetricians as well as cardiac intensivists, interventional cardiologists, electrophysiologists, and adult congenital cardiologists to provide care for the fetus and mother and to coordinate risk-adjusted deliveries. Fetal cardiologists also work with the Prenatal Pediatrics Institute to care for fetuses with extracardiac abnormalities and in multiple grant-funded research projects.

**Heart and Kidney Unit**
The Heart and Kidney Unit, a 26-bed acute care unit, cares for neonates, infants, children, and adults with congenital heart disease on the Cardiovascular Surgery and Cardiology Inpatient Services.

**Heart Transplantation and Advanced Cardiac Therapies**
The Heart Transplantation and Advanced Heart Failure Program at Children’s National is a very busy clinical service including inpatient acute and critical care, outpatient care, and pre- and post-transplant care. The team staffs numerous outpatient heart failure and transplant clinics as well as co-rounding with the HKU and CICU teams. Children’s National has continually provided medical and interventional pre- and post-transplant care for many years, and has performed over 50 transplants since 2013. Children’s National has long been a national leader in ECMO and offers the full array of ventricular assist devices including the Berlin Heart and HeartWare with a dedicated VAD manager and nurse practitioner.

**Pulmonary Hypertension**
Children’s National is proud to have the only advanced Pulmonary Hypertension Program in the region. Clinical services include inpatient consultations and outpatient clinics with the full spectrum of therapies utilized, including ambulatory continuous infusions and newer pharmacological agents. We have recently started a lung transplantation program to expand our therapeutic options.

**Outpatient Clinics**
Over 18,000 outpatient cardiology visits per year take place at Children’s National and its regional outpatient centers. Specialty programs at Children’s National include:

- Single Ventricle Interstage Program
- Hyperlipidemia/Preventive Cardiology Clinic
- Heart Failure Clinic
- Pulmonary Hypertension Clinic
- Cardiac, Oncology, and Blood Disorders clinic
- Cardiac Neurodevelopmental Outcomes Program (CANDO)
- Cardiogenetics: Inherited Arrhythmias
- Cardiogenetics: Cardiomyopathies

Our Single Ventricle Interstage Clinic utilizes telemedicine home monitoring and is staffed by a multi-disciplinary team of cardiologists, nurse practitioners, and a dedicated nutritionist and has resulted in one of the lowest interstage mortality rates in the country.

**Washington Adult Congenital Heart Program**
Children’s National’s has an accredited ACHD program comprising a specialized team of transitional and adult congenital cardiologists. This population includes older patients who underwent the Mustard or Senning operation for D-transposition of the great arteries, modified Fontan operation for single ventricle anatomy, and tetralogy of Fallot repair. Complex issues including arrhythmias, polycythemia, pregnancy, and psychosocial ramifications are addressed by the team. A joint clinic is also held with adult cardiologists from the Washington Hospital Center.
Recent Graduates
All graduating cardiology fellows have been successful at pursuing academic, private, or military careers after completing their fellowship, including both research and senior clinical fellowships at Children’s National and other prestigious institutions. The post-graduation experiences of our recent graduates are shown below.

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<thead>
<tr>
<th>Fellow</th>
<th>Year</th>
<th>Post-Graduation Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rohan Kumthekar</td>
<td>2019</td>
<td>Electrophysiology fellow at Children’s National, EP faculty at Nationwide Children’s Hospital</td>
</tr>
<tr>
<td>Deepa Mokshagundam</td>
<td>2019</td>
<td>Heart failure and transplant fellow and subsequent faculty position at Washington University</td>
</tr>
<tr>
<td>Neeta Sethi</td>
<td>2019</td>
<td>Advanced imaging fellow at Children’s National, imaging faculty at Duke University</td>
</tr>
<tr>
<td>Meghan Zimmerman</td>
<td>2019</td>
<td>Faculty at Dartmouth-Hitchcock Children’s Hospital</td>
</tr>
<tr>
<td>Nimisha Aggarwal</td>
<td>2018</td>
<td>Private practice in Dallas, TX</td>
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<tr>
<td>Ashish Doshi</td>
<td>2018</td>
<td>American Heart Association Early Career Development Grant at Johns Hopkins</td>
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<tr>
<td>Ian Hovis</td>
<td>2018</td>
<td>Faculty at Children’s National</td>
</tr>
<tr>
<td>Bryan Siegel</td>
<td>2018</td>
<td>Critical care fellowship at Children’s National, cardiac critical care faculty at Boston</td>
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<td>Children’s Hospital</td>
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<td>James Enos</td>
<td>2017</td>
<td>Faculty at Miami Children’s Hospital</td>
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<td>Jacob Hartz</td>
<td>2017</td>
<td>Preventive cardiology fellowship at Boston Children’s Hospital, faculty at Boston</td>
</tr>
<tr>
<td>Yue-Hin Loke</td>
<td>2017</td>
<td>Advanced Imaging fellowship at Children’s National, faculty at Children’s National</td>
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<tr>
<td>Lauren Tague</td>
<td>2017</td>
<td>Advanced Imaging fellowship at Children’s National, Faculty at Upstate Medical College</td>
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<tr>
<td>Brad Clark</td>
<td>2016</td>
<td>Electrophysiology fellowship at Children’s National, faculty at The Children’s Hospital</td>
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<tr>
<td>Michael Cunningham</td>
<td>2016</td>
<td>Faculty at Naval Medical Center Portsmouth</td>
</tr>
<tr>
<td>Michelle Ploutz</td>
<td>2016</td>
<td>Heart failure and transplantation fellowship at Cincinnati Children’s, faculty at Phoenix</td>
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<tr>
<td>Joshua Hayman</td>
<td>2016</td>
<td>Faculty at University of Kentucky</td>
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<tr>
<td>Justin Georgekutty</td>
<td>2015</td>
<td>Adult congenital fellowship at Baylor/Texas Children’s; faculty at North Shore Cohen</td>
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<tr>
<td>Elena Grant</td>
<td>2015</td>
<td>Interventional cardiology fellowship at Emory; faculty at UCSF</td>
</tr>
<tr>
<td>Asha Nair</td>
<td>2015</td>
<td>Cardiac critical care fellowship at Boston Children’s; cardiac ICU faculty at Stanford</td>
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<tr>
<td></td>
<td></td>
<td>Cardiac ICU faculty at Stanford</td>
</tr>
<tr>
<td>Ann Punnoose</td>
<td>2015</td>
<td>Heart failure and transplantation fellowship at Lurie Children’s; heart failure/transplant</td>
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<tr>
<td></td>
<td></td>
<td>faculty at University of Wisconsin</td>
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Benefits
Benefits for all Children’s National employees include health, dental and vision insurance; flexible spending accounts, life insurance, sick leave, disability insurance, and back-up dependent child and elder care. More information is available on our website. All cardiology fellows receive a laptop computer for use during their training in addition to a $1,500 educational stipend per year for books, conferences, and other educational materials. The 2020-2021 salary scale for fellows at Children’s National Medical Center is as follows:

| FY21 Salary | PGY4 | $77,157 |
|            | PGY5 | $81,528 |
|            | PGY6 | $86,075 |
|            | PGY7 | $90,975 |
|            | PGY8 | $96,140 |

More information about salary, contracts, benefits, and Visa information can be found at https://childrensnational.org/research-and-education/healthcare-education/about-gme/candidates-for-residency-or-fellowship
Charles I. Berul, M.D.
Dr. Berul is Chief of the Division of Cardiology and Co-Director of the Children’s National Heart Institute. He was born in Washington, DC and was raised in the area. He earned his bachelor’s and master’s degrees in biology from Bucknell University and then received his doctorate of medicine from the University of Maryland. Dr. Berul completed his internship and residency in pediatrics at Yale, followed by specialty fellowship training in pediatric cardiology and electrophysiology at Children’s Hospital of Philadelphia. He was the director of the Pacemaker Program at Children’s Hospital Boston, Harvard Medical School until coming to Children’s National Medical Center in 2009. Dr. Berul is a professor of Pediatrics at George Washington University School of Medicine. Dr. Berul is a fellow of the Heart Rhythm Society, the American Academy of Pediatrics, the American College of Cardiology, the Society for Pediatric Research, and the American Heart Association’s Council on Cardiovascular Disease in the Young. Dr. Berul has over 150 publications in the field of pediatric cardiology. He is an invited speaker nationally and internationally and is an acknowledged expert in the area of pediatric cardiac electrophysiology.

Lowell H. Frank, M.D.
Dr. Frank joined the faculty of Children’s National in 2010 and is the Director of the Cardiology Fellowship Training Program. He received his B.A. with Distinction in All Subjects at Cornell University with dual majors in music and biochemistry and received his M.D. from the Weill Medical College of Cornell University. Dr. Frank completed his training in pediatrics at Cornell where he received the Department of Pediatrics Award for Teaching Excellence in his final year. He completed his fellowship training in pediatric cardiology here at Children’s National, where he twice received the David Lewis Award for Most Outstanding Fellow. He subsequently completed a senior fellowship in advanced cardiac imaging at Children’s National. Dr. Frank has conducted research at the National Heart, Lung, and Blood Institute of the National Institutes of Health analyzing ventricular mechanics in models of congenital heart disease. His research interests include advanced echocardiographic measures of ventricular function, dyssynchrony, and echocardiographic resource utilization. He is the co-investigator on multiple grants investigating myocardial markers of sudden death in patients with refractory epilepsy. Dr. Frank leads the fellows’ pathology sessions and contributes to the weekly echo conferences and was awarded the 2016 Jodi I. Pike Award for Excellence in Teaching from the cardiology fellows. He is a recent graduate of the George Washington University Master Teacher Leadership Development Program. He participates in transthoracic, transesophageal, and three-dimensional echocardiography as well as inpatient and outpatient care, with a particular interest in medically complex patients and international adoption.

Christopher F. Spurney, M.D.
Dr. Spurney is the Associate Director of the Cardiology Fellowship Training Program. He joined the division of cardiology in July 2004 after completing his pediatric residency at Columbia and in pediatric cardiology fellowship at Children’s National Medical Center. Dr. Spurney obtained a B.A. in biology at Cornell University and completed his medical degree at New York Medical College. He was awarded the National Institute of Child Health and Human Development Child Health Research K12 Career Development Award in 2004. He performs research in the Children’s Research Institute at the Center for Genetic Medicine, investigating cardiomyopathy related to muscular dystrophies including non-invasive imaging of pre-clinical muscular dystrophy, small animal models and novel non-invasive
imaging, and serum biomarkers of cardiomyopathy, in Duchenne muscular dystrophy patients. He serves as the Associate Training Director for the AHA SFRN RHD Fellowship program. His clinical interests include inpatient cardiology, echocardiography, and outpatient care, where he runs a specialized muscular dystrophy clinic. Dr. Spurney has a long track record of successful research mentoring of medical students, residents, and cardiology fellows.

Jeffrey A. Becker, M.D.
Dr. Becker joined Children’s National in August 2008 and is the primary pediatric cardiology consultant at Holy Cross Hospital. He sees patients throughout the DC region. He is board certified in general pediatrics and pediatric cardiology, a diplomat of the National Board of Medical Examiners, a fellow of the American Academy of Pediatrics and the American College of Cardiology, and a member of the North American Society for Cardiac Imaging. Dr. Becker received his doctorate of medicine from the George Washington University School of Medicine. He completed his residency in pediatrics at Walter Reed Army Medical Center, Washington, D.C. and his fellowship training in cardiology at Children’s National Medical Center. His primary interests include non-invasive cardiac imaging and outpatient cardiology.

John T. Berger, III, M.D.
Dr. Berger is a cardiologist, cardiac intensivist, and pulmonary hypertension specialist in addition to his role as the Medical Director of our ECMO program. He received his undergraduate degree from the University of Virginia and his medical degree from Washington University School of Medicine in St. Louis. He then completed his training in pediatrics at Oregon Health & Science University followed by fellowships in cardiology and critical care medicine at Children’s National. In addition to his ICU practice, he serves as director of the Pulmonary Hypertension Program and is a member of the Heart Failure and Transplantation team. He has completed the Master Teacher program at George Washington University and has been an invited speaker regionally and nationally. Dr. Berger serves as the co-investigator in the Collaborative Pediatric Critical Care Research Network. Dr. Berger received the 2018 Jodi I. Pike Award for Excellence in Teaching.

Kristin M. Burns, M.D.
Dr. Burns joined the Children’s National Medical Center faculty in 2011. She received her bachelor’s degree from Wellesley College and her medical degree from the University of Massachusetts. Dr. Burns completed her pediatric residency and chief residency at Hasbro Children’s Hospital and Brown University and her pediatric cardiology fellowship at Children’s National Medical Center. She is also a medical officer in the Heart Development and Structural Diseases Branch in the Division of Cardiovascular Sciences at the National Heart, Lung, and Blood Institute (NHLBI), part of the NIH.

Sherrill Caprarola, M.D., MSHS
Dr. Caprarola joined the Cardiac ICU faculty in 2017 and is director of the senior clinical fellowship in cardiac critical care. After obtaining her medical degree from the Medical College of Wisconsin, she completed residency in medicine and pediatrics at the Medical College of Wisconsin. She completed a pediatric critical care medicine at Children’s National and earned a Master’s of Science in Health Sciences at George Washington University during her training. Dr. Caprarola completed a cardiology fellowship at Texas Children’s before returning to Washington to join our team.
Sarah B. Clauss, M.D.
Dr. Clauss joined our staff in September 2002 and leads the Single Ventricle Program. She received her bachelor’s degree from Cornell University and her medical degree from SUNY Buffalo. She completed her pediatric residency at Children’s Hospital of Pittsburgh and her pediatric cardiology fellowship at Johns Hopkins. Dr. Clauss has a busy clinical practice in Shady Grove and in Hagerstown in addition to her time reading in the echo lab. In addition to her single ventricle, outpatient, and echo lab duties, she is a core member of our preventive cardiology team with a special interest in dyslipidemias. Dr. Clauss’ research interests include the use of carotid intimal medial thickness in children with hypertension.

Russell R. Cross, M.D.
Dr. Cross serves as Director of the Cardiac MRI program and Director of Inpatient Cardiology. He received his B.S. in electrical engineering from the University of Texas at Austin and his master of science in biomedical engineering and his doctorate of medicine from the University of Texas Southwestern. After pediatric residency training at the University of Texas Houston, he completed his cardiology fellowship training at Children’s National Medical Center. He founded the cardiac MRI program here in DC and has overseen the growth of the program into a national leader in pediatric cardiac MRI. His interests include cardiac MRI and CT, echocardiography, and information technology in medicine. He has had numerous leadership roles at Children’s National including medical unit director of the Heart and Kidney Unit, director of quality and safety for cardiology, and spearheading our collaboration with the National Pediatric Cardiology Quality Improvement Collaborative.

Susan D. Cummings, M.D., M.P.H.
Dr. Cummings’ primary interests are in inpatient and outpatient care as well as echocardiography. Dr. Cummings joined the Children’s National staff in 1998. She received her bachelor’s degree from Duke University, her medical degree from Johns Hopkins University, and her pediatric residency and pediatric cardiology fellowship at Children’s Hospital Boston. She subsequently completed a senior fellowship in echocardiography at Children’s National Medical Center. Dr. Cummings’ focus includes education in transthoracic, transesophageal, and fetal echocardiography, and she was awarded the inaugural Jodi I. Pike Award for Excellence in Cardiology Fellow Education.

Shriprasad Deshpande, M.D.
Dr. Deshpande will be joining our team in the fall of 2018 as the Director of Heart Failure, Transplantation, and Advanced Cardiac Therapies. Dr. Deshpande obtained his medical degree from Lokmanya Tilak Medical College, in Mumbai, India, in 1998. He completed his residency in pediatrics at the University of Iowa Hospitals and Clinics in 2007. From 2007 to 2010, Dr. Deshpande was a fellow in pediatric cardiology, and an advanced fellow in pediatric cardiac intensive care from 2010 to 2011, at Children’s Healthcare of Atlanta. Dr. Deshpande’s roles include Cardiac ICU service and inpatient and outpatient transplant and heart failure service and clinics. His clinical interests include cardiac critical care, biomarkers in heart failure, and mechanical support.
Niti Dham, M.D.
Dr. Dham joined the Children’s National team in 2009. She completed her fellowship in pediatric cardiology and a senior fellowship in advanced cardiac imaging fellowship at Children’s National Medical Center. Prior to this, her cardiology fellowship included training at Columbia University and Tulane University. Her clinical interests include echocardiography, heart failure, and inpatient and outpatient care. Dr. Dham is the lead cardiologist involved in Children’s National’s Cardiology-Oncology-Blood Disorders Clinic, a multidisciplinary clinic focusing on the cardiac evaluation and management of children and young adults with a history of malignancies and hematologic diseases. Her research is focused on echocardiography in the evaluation of patients with sickle cell disease and heart failure as well as cardiac sequelae of chemotherapy.

J. Wesley Diddle, M.D.
Dr. Diddle is a member of our Cardiac Intensive Care Unit attending staff and the Medical Director for Quality and Safety for the CICU. He graduated from the University of Virginia and then subsequently completed medical school at the University of Tennessee. He completed his pediatric residency at Seattle Children’s Hospital, pediatric cardiology fellowship at Children’s Hospital of Boston, and critical care medicine fellowship at the Children’s Hospital of Pittsburgh. Dr. Diddle’s interests include studying the use of extracorporeal support in acute myocarditis, bedside hemodynamic monitoring, critical care echocardiography, and the effects of dexmedetomidine on low cardiac output syndrome.

Mary T. Donofrio, M.D.
Dr. Donofrio is Medical Director of the Fetal Heart Program, the Critical Care Delivery Program, the Advanced Cardiac Imaging Fellowship, and co-director of the Cardiac Neurodevelopmental Outcome Program. She graduated from Johns Hopkins University and received her M.D. from Mount Sinai School of Medicine. She trained in pediatrics at the New York Hospital – Cornell Medical Center followed by cardiology training at the Children’s Hospital of Philadelphia with advanced training in fetal echocardiography at Yale University. Her research has focused on fetal cardiovascular physiology and heart function, including studies of autoregulation of cerebral blood flow in fetuses with congenital heart disease and delivery room management strategies to improve the neurodevelopmental outcome of babies born with congenital heart disease. Dr. Donofrio has published over 100 peer reviewed papers, including the 2014 Scientific Statement: Diagnosis and Treatment of Fetal Cardiac Disease. She is the founding president of the Fetal Heart Society, a multidisciplinary multicenter collaborative research organization and is a Board Member on the Steering Committee of the Cardiac Neurodevelopmental Outcome Consortium.

Robin W. Doroshow, M.D.
Dr. Doroshow leads the Georgetown University pediatric cardiology program. Her primary interests include outpatient cardiology, echocardiography, and medical education. She has been in practice since 1978 after graduating from Harvard Medical School and completing residency and fellowship training at the University of Colorado and a research fellowship at Children’s Hospital Boston. She joined the staff at Children’s National in 2003 after spending 12 years in the University of California, Los Angeles. Dr. Doroshow is the faculty leader of the division’s journal club and is active in medical student, resident, and fellow education.
Tacy Downing, M.D.
Dr. Downing joined Children’s National in 2018 from Nicklaus Children’s Hospital in Miami. She completed medical school and an Internal Medicine-Pediatrics residency at Duke University. Following that, she completed her categorical cardiology fellowship as well as advanced fellowship training in both adult congenital heart disease and interventional cardiology at the Children’s Hospital of Philadelphia. She is Board Certified in Internal Medicine, Pediatrics, and Pediatric Cardiology. Dr. Downing balances her time between interventional cardiology and adult congenital heart disease clinics. Her research interests include single ventricle physiology and outcomes of stent implantation in infants.

Mary L. Falterman, M.D.
Dr. Falterman joined our team in 2019 as a part of our new practice in Richmond, Virginia. A 1984 graduate of the Medical University of South Carolina, she completed residency in pediatrics at University of Texas Austin and her cardiology fellowship at the Medical College of Virginia. In 1991, she joined Pediatric Cardiology of Central Virginia which later joined Children’s National Hospital. Dr. Falterman’s professional expertise spans a wide range of cardiac concerns, including dysrhythmias, adult congenital disease, and child and adolescent inherited/acquired cardiovascular risk factors, with a special interest in fetal echocardiography. Dr. Falterman has been voted as a Top Doctor in pediatric cardiology by the Richmond Magazine survey since its inception 20 years ago.

Craig Futterman, M.D.
Dr. Futterman is an attending physician in the Cardiac Intensive Care Unit. Dr. Futterman received his Bachelor’s degree from George Washington University and his MD from Eastern Virginia Medical School. He completed residency training in both pediatrics and anesthesiology at Akron Children’s Hospital and a combined fellowship program and anesthesia and pediatric critical care medicine at Children’s Hospital Boston. After many years practicing both general pediatric critical care and pediatric cardiac critical care at Inova Hospital in Fairfax, Virginia, Dr. Futterman joined our cardiac ICU team. Dr. Futterman devotes considerable time to information technology and medical informatics and is a member of the Bear Institute, our innovative clinical information technology team.

Suma P. Goudar, M.D.
Dr. Goudar returned to Children’s National in 2019 as a member of our echocardiography and fetal cardiology teams. After completing residency here in Washington, DC in 2008, she completed her cardiology and advanced imaging fellowships at the Medical University of South Carolina. She then joined the faculty at Children’s Mercy Hospital in Kansas City. Dr. Goudar is a graduate of Duke University and the University of North Carolina School of Medicine. She has published research on diastolic function in single ventricle patients and speckle tracking echocardiography,
Ashraf S. Harahsheh, M.D.

Dr. Harahsheh joined Children’s National in September 2008 after completing his residency and fellowship training at the Children’s Hospital of Michigan. He received his doctorate of medicine from the University of Jordan-College of Medicine, Amman, Jordan. Dr. Harahsheh is director of resident education in our division and is active in inpatient and outpatient care as well in the preventive cardiology program with a focus on hyperlipidemia. He is active in the Joint Council on Congenital Heart Disease’s National Pediatric Cardiology Quality Improvement Collaborative as well as the International Kawasaki Disease Registry. Dr. Harahsheh has recently spearheaded our ambulatory cardiology telemedicine efforts and serves as the Medical Director of the Northern Virginia Regional Outpatient Center.

Ian Hovis, M.D.

Dr. Hovis joined our team in the summer of 2018 after completing his cardiology fellowship at Children’s National. Dr. Hovis established a track record of success here in Washington, making two trips to Uganda for rheumatic heart disease research and achieving recognition for excellence in medical student education. Dr. Hovis’ practice focuses on outpatient care, and his academic interests including medical student, resident, and fellow education.

Seiji Ito, M.D.

Dr. Ito joined Children’s National in 2015. He completed his medical degree at the Ehime University School of Medicine in Japan followed by residency in medicine and pediatrics at the University of Missouri-Kansas City. He completed his cardiology fellowship at New York University and a fellowship in Adult Congenital Heart Disease at the University of Washington in Seattle. In addition to his core role as a part of the Washington Adult Congenital Heart Program, Dr. Ito is a part of our cardiac MRI team. Dr. Ito was awarded the 2017 Jodi I. Pike Award for Excellence in Teaching from the fellows.

Anitha S. John, M.D., Ph.D.

Dr. John joined Children’s National in 2011 and is Director of the Washington Adult Congenital Heart Program. After completing an accelerated undergraduate degree from Villanova University in 1994, she obtained a Ph.D. in the molecular pathobiology program in 1999 and completed her medical degree in 2001 from the Drexel University Medical School. She completed a combined internal medicine-pediatrics residency program at Brown University, pediatric cardiology fellowship at Children’s Hospital of Philadelphia, and a senior fellowship in adult congenital heart disease at the Mayo Clinic. Dr. John practices at Children’s National and participates in the Echocardiography Laboratory at the Washington Hospital Center. Her recent research has focused on liver dysfunction in patients with the Fontan palliation for single ventricles.

Jonathan Kaltman, M.D.

Dr. Kaltman joined Children’s National in 2007 after serving on faculty as the Children’s Hospital of Philadelphia, where he completed his pediatric internship and residency, his cardiology fellowship, and his subspecialty training in electrophysiology. Dr. Kaltman serves as a Branch Chief in the Heart Development
and Structural Diseases Branch in the Division of Cardiovascular Sciences at the National Heart, Lung, and Blood Institute (NHLBI), of the NIH. In this role, he is responsible for developing new research initiatives and managing basic and clinical research grants in the multiple areas of pediatric cardiology-related disease states. Dr. Kaltman provides leadership for the Pediatric Cardiac Genomics Consortium, a multi-center translational research group investigating the association of genetic variation with congenital heart disease diagnosis and outcome. He also helps oversee the Pediatric Heart Network, a multi-center clinical research network conducting studies in children with congenital heart disease.

**Joshua P. Kanter, M.D.**

Dr. Kanter is director of the Cardiac Catheterization Laboratory at Children’s National. He received his medical degree and pediatric training from the State University of New York Health Science Center at Syracuse and completed fellowship training in pediatric cardiology and interventional pediatric cardiology at the New York Presbyterian Hospital, Columbia University Medical Center. Dr. Kanter specializes in diagnostic and interventional pediatric cardiac catheterization for the treatment of congenital heart disease. He has extensive experience implanting the Melody® Transcatheter Pulmonary Valve, and is an expert in the device closure of atrial septal defects, ventricular septal defects, and patent ductus arteriosus. He is an investigator in a number of national multi-center research studies to examine new devices and to track clinical outcomes. He serves on several national committees including the NCDR IMPACT™ Registry Implementation Group and the American College of Cardiology Annual Scientific Session Program Committee.

**Sairah Khan, M.D.**

Dr. Khan joined Children’s National in 2016 as part of the Heart Failure and Transplant team. A native of northern Virginia, she received her undergraduate degree in biology and psychology from the University of Rochester, where she subsequently completed medical school. She completed her Pediatrics residency at the University of North Carolina followed by a Cardiology fellowship at Nationwide Children’s in Columbus, Ohio. Dr. Khan did an advanced fellowship in Pediatric Heart Failure, Cardiomyopathy, and Transplant at Cincinnati Children’s Hospital. Dr. Khan’s research interests include heart failure biomarkers, transplant clinical immunology, and quality-of-life measurements in cardiomyopathies and transplant patients.

**Anita N. Krishnan, M.D.**

Dr. Krishnan joined the Division of Cardiology as faculty in October 2009 and is our Associate Director of the Echocardiography Laboratory. She received her undergraduate degree from the Massachusetts Institute of Technology, where she studied chemical engineering. She attended Northwestern University for medical school and subsequently completed her pediatric residency, pediatric cardiology fellowship, and advanced imaging fellowship at Children’s National. Her research interests investigation of novel techniques for fetal ECG monitoring and the analysis of disparities in health care using geomapping data. Her clinical practice focuses on fetal cardiology, transthoracic and transesophageal echocardiography, and inpatient and outpatient care.
Stephanie Lacey, D.O.
Dr. Lacey joined our team in 2019 as a part of our new practice in Richmond, Virginia. Prior to joining Children’s National Cardiology Richmond, she served as the director of the Pediatric Echocardiography Lab and director of the Fetal Cardiac Care Clinic with the University of Florida. Early in her time in Florida, she collaborated with our team on Global Health missions to Uganda. Dr. Lacey attended Lake Erie College of Osteopathic Medicine before completing her pediatric residency at Geisinger Medical Center in Pennsylvania. She completed her pediatric cardiology fellowship in Richmond at VCU. Her interests include echocardiography, fetal cardiology, and echocardiography.

Linda Leatherbury, M.D.
Dr. Leatherbury returned to Children’s National Medical Center in October 2001 after 16 years on the faculty at the Medical College of Georgia. She is board certified in pediatric cardiology. Dr. Leatherbury completed her residency and fellowship at Children’s National and was recognized for excellence in teaching during her time here. Her primary interests are inpatient and outpatient care, clinical and basic science education, and basic science research. Dr. Leatherbury has mentored numerous undergraduates, post-doctoral fellows, and cardiology fellows in the Laboratory of Developmental Biology at the NIH and is active in research investigating genetic mutations in mouse models of congenital heart disease.

Yue-Hin Loke, M.D.
Dr. Loke joined the Children’s National Medical Center faculty in 2018. He received his bachelor’s degree from University of Maryland and his medical degree from the Indiana University School of Medicine. Dr. Loke completed his pediatric residency, pediatric cardiology fellowship, and advanced cardiac imaging fellowship at Children’s National Medical Center. Dr. Loke is an early adopter of new imaging technology, and his interests include echocardiography, cardiac MRI, 3D printing, and computational fluid dynamics in congenital heart disease. His research interests have strengthened the relationship with George Washington Department of Bioengineering. Dr. Loke runs our weekly Echo Case Conference and is the 2018 recipient of the Jodi I. Pike Award for Excellence in Teaching.

Alejandro Lopez-Magallon, M.D.
Dr. Lopez-Magallon joined Children’s National in 2017. He received his medical degree in 1986 from the Escuela Medico Militar followed by internship and residency at Esceula Militar de Graduados de Sanidad. He subsequently completed fellowship training at the Massachusetts General Hospital and Boston Children’s Hospital. His interests include cardiac critical care and telemedicine, and he has worked with cardiac critical care units in Columbia to improve care and reduce mortality. His clinical responsibilities include cardiac ICU practice, working with our telemedicine partners, and reading in our echo lab.

Gerard R. Martin, M.D.
Dr. Martin, the Medical Director for Global Services, has been in practice at Children’s National Hospital since 1986. Dr. Martin was the Chief of Cardiology from 1997 to 2009 and Senior Vice President for the Center for Heart Lung and Kidney Disease from 1999 to 2015. He founded the Children’s National Heart Institute in 2004. He was named the C. Richard Beyda Professor of Cardiology in 2007. Dr. Martin was educated at Syracuse University and the State University of New York,
Upstate School of Medicine. After a residency at Brown University and the Rhode Island Hospital, he received his training in pediatric cardiology at the Cardiovascular Research Institute at the University of California, San Francisco. He has published over 150 peer reviewed manuscripts, book chapters and invited publications and has presented abstracts at over 125 meetings. Dr. Martin is an invited lecturer who has traveled to over 200 meetings, hospitals and universities within the USA as well as around the world. Dr. Martin is an advocate for congenital heart disease efforts nationally and internationally. He played integral roles in the development of CCHD Screening and the Sub-Board of Adult Congenital Heart. Additionally, Dr. Martin has been a volunteer on medical missions to developing countries. He has served in a consultant role within the United States as well as in South America, Asia, and the Middle East.

Michele Mietus-Snyder, M.D.
Dr. Mietus-Snyder is co-director of the Obesity Institute after practicing in the UCSF Departments of Pediatric Medicine and Physiological Nursing. She received her undergraduate and M.D. degrees from the University of California, San Diego and did her pediatric residency and cardiology fellowship training at Children’s Hospital Boston. Her interest in the molecular pathways responsible for early preclinical atherogenesis led her to pursue basic science research in lipoprotein gene regulation at Harvard and at the Gladstone Institute for Cardiovascular Disease Research. Her studies of redox-sensitive genes important in early heart disease impressed upon her how many cardiovascular risk factors function via common metabolic pathways that promote vascular oxidative stress, including dyslipidemia, unhealthy diet, sedentary lifestyle, hypertension, and psychological stress. Her clinical practice focuses on preventive cardiology.

Jeffrey P. Moak, M.D.
Dr. Moak is director of Electrophysiology and Pacing at Children’s National. Dr. Moak has been in practice for over 20 years, joining the staff here in 1992 after serving as an attending at Texas Children’s Hospital. He received his training in pediatric cardiology at the Columbia University College of Physicians followed by a fellowship in cellular electrophysiology at the same institution. He is board certified in pediatric cardiology and a fellow of the American Academy of Pediatrics and the American College of Cardiology. Dr. Moak’s primary interests include sudden cardiac death, neurally mediated cardiac syncope, and pacemakers and cardiac function. His clinical practice includes inpatient and outpatient electrophysiology as well as the full spectrum of interventional electrophysiologic procedures.

Ricardo Munoz, M.D.
Dr. Ricardo Munoz joined Children’s National in 2018 as the Chief of the Division of Cardiac Intensive Care, Co-Director of the Children’s National Heart Institute, and Executive Director of Telemedicine Services. Dr. Munoz is a highly accomplished pediatric cardiologist and critical care physician who has led major programs in cardiac intensive care and has distinguished himself as an international leader in telehealth. He was the Chief, Cardiac Intensive Care Division at the Children’s Hospital of Pittsburgh where he also served as Medical Director for Global Business and Telemedicine and Director of International Affairs. During his fifteen-year tenure, Dr. Munoz established the cardiac intensive care unit and co-led the Heart Center in a multi-disciplinary effort to achieve some of the nation’s very best outcomes. Dr. Munoz has also developed multiple telemedicine programs between the Children’s Hospital of Pittsburgh and other intensive care units, cancer programs, and pediatric services in the US and abroad. He is the primary editor and co-author of multiple textbooks and award-winning handbooks in pediatric cardiac intensive care, including Spanish language editions.
Jai K. Nahar, M.D.
Dr. Nahar joined the division of cardiology in July 2006 after completing his training at Children’s National Medical Center. After his pediatric postgraduate training in India, he finished his pediatric residency at Sinai Hospital of Baltimore. Prior to joining the cardiology fellowship, Dr. Nahar worked as a primary care pediatrician in Hagerstown, MD. His primary focus is outpatient cardiology.

Laura J. Olivieri, M.D.
Dr. Olivieri splits her time between the Division of Cardiology and the Sheikh Zayed Institute for Pediatric Surgical Innovation. She received her undergraduate degree at Worcester Polytechnic Institute and her medical degree at the University of Chicago. Following her pediatric residency and chief residency at Hasbro Children’s Hospital and Brown University, she completed her pediatric cardiology fellowship at Children’s National and a senior fellowship in advanced cardiac imaging and cardiac MRI at Children’s National and the NIH. Dr. Olivieri’s research has included computational models of flow dynamics and presently focuses on using MRI and echocardiographic in 3D printing of heart models. Her clinical practice includes inpatient and outpatient care, echocardiography, and cardiac MRI. Dr. Olivieri is a highly sought-after national speaker on cardiac MRI topics with multiple NIH grants and has a proven track record of success in mentoring multiple residents and fellows in their scholarly activities. Dr. Olivieri was awarded the 2017 Jodi I. Pike Award for Excellence in Teaching from the cardiology fellows.

Robin Puente, M.D.
Dr. Puente joined our cardiac intensive care unit team in 2018 after practicing at Children’s Medical Center Dallas/University of Texas Southwest. Dr. Puente completed medical school at Washington University of St. Louis School of Medicine, where she also completed her pediatric residency. She then completed her pediatric critical care fellowship at University of Texas Southwestern, where she also served as chief fellow. She remained in Dallas for her pediatric cardiology fellowship. Her clinical interests include myocardial dysfunction and recovery in pediatric patients with heart failure and she conducts basic science research at the NIH.

Craig A. Sable, M.D.
Dr. Sable is the Associate Chief of the Division of Cardiology and Director of the Echocardiography Laboratory. He received his undergraduate education at Northwestern University, his medical education at the University of Chicago, and his pediatric residency and pediatric cardiology fellowship training at Children’s National. He is chairman of the Sub-Board of Pediatric Cardiology of the American Academy of Pediatrics, past chairman of the Cardiovascular Disease in the Young section of the American Heart Association, and is an editor of the journal Pediatric Cardiology. Dr. Sable’s primary interests include telemedicine, advanced echocardiography, and rheumatic heart disease. He has a strong interest in international medicine, having lead over twenty medical missions to Africa to establish a sustainable congenital heart program in Uganda and is co-investigator on the AHA Strategically Focused Research Network RHD grant. Dr. Sable directs the fellows’ weekly echocardiography conference.
Elizabeth Sherwin, M.D.
Dr. Sherwin is an interventional electrophysiologist with a special interest in inherited arrhythmias. Prior to joining Children's National, Dr. Sherwin was an attending pediatric electrophysiologist at British Columbia Children's Hospital in Vancouver, Canada, where she was the Director of Electrophysiology. Originally from Virginia, Dr. Sherwin received her medical degree from Medical College of Virginia and completed the combined Boston Children's and Boston University pediatrics residency. Dr. Sherwin then completed a pediatric cardiology fellowship at Boston Children’s as well as an advanced electrophysiology fellowship. Dr. Sherwin was awarded the 2016 Jodi I. Pike Award for Excellence in Teaching from the cardiology fellows.

Michael Tsifansy, M.D.
Dr. Tsifansky serves as a cardiac intensivist, a pulmonary hypertension specialist, and as director of our newly-established lung transplantation program. He earned his undergraduate degree in biological sciences from the University of Chicago and his medical degree from the Sackler School of Medicine at Tel Aviv University in Israel. He completed an internship and residency in pediatrics at the University of Minnesota. Dr. Tsifansky then continued his training with fellowships in pediatric pulmonology and critical care medicine at Massachusetts General Hospital/Harvard Medical School in Boston, Mass., and in pediatric cardiac critical care medicine at the Children’s Hospital of Pittsburgh. Dr. Tsifansky is board certified in pediatrics, pediatric pulmonology and pediatric critical care medicine. He is a member of the attending staff in the Children’s National Hospital Cardiac Intensive Care Unit and in the Division of Pulmonology and Sleep Medicine. His interests include pulmonary hypertension, lung transplantation, cardiac critical care, cardiorespiratory failure and interstitial lung disease.

Gilbert Wernovsky, M.D.
Dr. Wernovsky an internationally renowned pediatric cardiologist and cardiac intensivist. As a senior consultant in cardiology, he serves as an attending physician in the Cardiac ICU and on our inpatient cardiology service. Dr. Wernovsky's clinical interests include the inpatient care of infants with critical congenital heart disease (CHD) and mechanical support of the failing circulation. For the past 30 years, he has been particularly interested in the long-term functional outcomes following surgery for complex CHD, particularly transposition of the great arteries, tetralogy of Fallot and single ventricle defects such as hypoplastic left heart syndrome. His goal is to identify modifiable factors in the care of children with CHD to improve overall outcomes, longevity, school performance, and quality of life. He is also a founding member of the Pediatric Cardiac Intensive Care Society and International Society for Pediatric Mechanical Cardiopulmonary Support, and was the Co-Chair of the Perioperative Working Group of the Pediatric Heart Network, NIH. He is the incoming co-chair of the 2021 World Congress of Pediatric Cardiology and Cardiac Surgery, to be held in Washington, DC.

David L. Wessel, M.D.
Dr. Wessel joined Children’s National in July 2007 and now serves as Chief Medical Officer for Hospital Services. Dr. Wessel was educated and trained at Oxford, Yale, and Harvard and is board certified in anesthesiology, pediatrics, pediatric cardiology, and pediatric critical care medicine. He is regarded by many as one of the fathers of pediatric cardiac critical care. He was the founding president of the Pediatric Cardiac Intensive Care Society, an international society which honored him with its 2004 award for contributions to improving children’s heart health. While in Boston, he designed a training program for pediatric cardiac intensive care and trained numerous fellows and staff who are now leaders in that field throughout the country.
Renee Willett, M.D.
A Washington-area native, Dr. Willett joined our team as a cardiac intensivist in 2019. She received her Bachelor of Science and her Doctor of Medicine from the University of Virginia. She completed her pediatric residency at Rainbow Babies and Children’s Hospital, her critical care medicine fellowship at Johns Hopkins Hospital, and her cardiology fellowship at Boston Children’s Hospital. Dr. Willett’s interests include cardiac critical care and medical education.

Gregory Yurasek, M.D.
Dr. Yurasek joined our Cardiac Intensive Care Unit team in 2015. He is a graduate of the College of the Holy Cross and the Columbia University College of Physicians and Surgeons. Subsequently, Dr. Yurasek completed his pediatric residency and cardiology fellowship at Children’s Hospital of Boston. Subsequently, Dr. Yurasek completed a pediatric critical care fellowship at Massachusetts General Hospital. He has been recognized for his teaching throughout his training and has won numerous awards, including the Fellow Teacher of the Year while at Massachusetts General Hospital. He runs our simulation program in the cardiac intensive care unit and helps coordinate the orientation of our fellows to the CICU. Dr. Yurasek was awarded the 2019 Jodi I. Pike Award for Excellence in Teaching from the cardiology fellows.
DIVISION OF CARDIOVASCULAR SURGERY
FACULTY ROSTER

Yves d’Udekem, M.D., Ph.D.
Dr. d’Udekem joins Children’s National Hospital as the Chief of Cardiovascular Surgery and Co-Director of the Children’s National Heart Institute. Dr. d’Udekem is Belgian-born with Canadian and Australian citizenship and received his early training in Belgium and Toronto. As an attending cardiac surgeon in Belgium, he operated on both adults and children with congenital heart disease. Dr. d’Udekem then worked with internationally recognized heart surgeon Marc de Laval, M.D., FRCS, and others in London to train in congenital heart surgery at the Great Ormond Street Hospital for Children. From there, he was recruited to The Royal Children’s Hospital in Melbourne, Australia, an institution that has been a leader in advancing the field of congenital heart disease. In Melbourne, Dr. d’Udekem built an outstanding reputation for clinical excellence and an exceptional academic career. He has over 300 publications and is highly cited and respected. Dr. d’Udekem obtained more than $7 million in grant funding over the past five years as the creator and leader of the highly touted Fontan Registry.

Richard A. Jonas, M.D.
Dr. Jonas is the former Chief of Cardiovascular Surgery at Children’s National Medical Center. He joined our staff in July 2004 after spending 20 years at The Children’s Hospital Boston, where he was Cardiovascular Surgeon-in-Chief for 10 years. After 16 years here as chief of CV surgery, his efforts are now directed at his laboratory endeavors. He completed his post-doctoral training in Melbourne, Australia, Auckland, New Zealand, and Boston. He has had leadership roles in several professional societies including the Congenital Heart Surgeons Society and the American Association for Thoracic Surgery. He is an author on over 250 peer reviewed manuscripts and 30 book chapters. He has authored 5 textbooks including the “Comprehensive Surgical Management of Congenital Heart Disease.” He is principle or co-investigator on 5 active NIH funded grants. His more recent research has focused on the study of support techniques during cardiac surgery to maximize intellectual development and minimize neurological injury.

Syed Murfad Peer, M.D.
After completing his congenital heart surgery fellowship at Children’s National Heart Institute, Dr. Peer was recruited as junior faculty at the University of Michigan (Mott Children’s Hospital and Frankel Cardiovascular Center). At Michigan, Dr. Peer further specialized in heart transplantation and advanced surgical therapy of heart failure (ECMO and ventricular assist devices). He has the unique distinction of being one of the few pediatric heart surgeons in the country with advanced training in heart transplantation and ventricular assist device therapy. Before coming back to Children’s National, Dr. Peer was faculty at the University of Minnesota, Masonic Children’s Hospital in Minneapolis. Dr. Peer has published extensively in the field of congenital heart surgery and has made several presentations at national and international meetings. He has a research interest in pediatric mechanical circulatory support, especially mechanical support of single ventricle circulation. Dr. Peer is currently working on a mechanical circulatory support strategy for the failing Fontan circulation.
Karthik Ramakrishnan, M.D.
After completing his fellowship in congenital cardiac surgery at two major centers in Australia, Dr. Ramakrishnan joined as a fellow at Children’s National in July 2014. After completing two years of fellowship, Dr. Ramakrishnan was promoted and joined the staff at Children’s National in October 2016. Dr. Ramakrishnan has extensive experience in managing children with congenital heart disease. Apart from routine open heart procedures in children, he has a special expertise in ECMO procedures and PDA ligation in extremely premature babies. He also has a keen interest in studying clinical outcomes after heart surgery in children. His research projects have included analysis of the UNOS database and the PHIS database, and his research has resulted in numerous presentations at national and international meetings. Dr. Ramakrishnan also is currently the principal investigator at Children’s National for the Pediatric Heart Transplant Study (PHTS) group and the study coordinator for the Congenital Heart Surgeon’s’ Society (CHSS) studies. Dr. Ramakrishnan also is an educator; he loves teaching and views his regular interaction with the staff in the cardiac intensive care unit (ICU) as a two-way learning experience that ultimately results in better care for the patients.

Pranava Sinha, M.D.
Dr. Sinha joined Children’s National Heart Institute at Children’s National Medical Center in September 2008. He received his Bachelor of Medicine and Surgery from Grant Medical College, University of Mumbai, India. After his cardiothoracic residency there he further trained in the specialty at St. Thomas’s Hospital in London, UK, and at Boston Medical Center and Boston University, followed by Congenital Cardiac Surgery fellowship at Children’s National Medical Center, Washington, DC. He is an Associate Professor in Surgery and Pediatrics at the George Washington University School of Medicine. His research interests include improving the outcomes of Single Ventricle Circulation including mechanical circulatory support strategies and device development.

Can Yerebakan, M.D.
Dr. Yerebakan earned his medical degree from Albert-Ludwigs University in Freiburg, Germany. He completed his residency in cardiac surgery at two premier centers in Germany followed by a fellowship in pediatric cardiac surgery at Children’s National. Dr. Yerebakan specializes in hybrid treatment of hypoplastic left heart syndrome (HLHS) and he is internationally recognized for his contributions to the field of congenital cardiac surgery. Dr. Yerebakan returned to Children’s National in 2017 from the prestigious Pediatric Heart Center Giessen in Germany, where he served as cardiac surgeon and associate professor of Cardiac Surgery at the Justus-Liebig-University. He has authored more than 70 peer-reviewed scientific papers in three different languages and has given numerous presentations on congenital cardiac surgery around the world. In addition to several awards for his research, Dr. Yerebakan was recognized by the European Association of Cardiothoracic Surgery with a prestigious award for his work on experimental animal models for congenital heart surgery in 2009. His research interests also include alternative treatment for dilated cardiomyopathy in children.
Cardiac Anesthesia Attending Staff

Nina Deutsch, M.D., *Director*
Anna Brown, M.D.
Richard Kaplan, M.D.
Andy Matisoff, M.D.
Karen Thomson, M.D.
Chinwe Unegbu, M.D.
Andrew Waberski, M.D.

Advanced Practice Cardiac Nurses and Nurse Practitioners

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Nancy Klein</td>
<td>Adult Congenital Heart Disease</td>
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<tr>
<td>Rachel Steury</td>
<td>Adult Congenital Heart Disease</td>
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<tr>
<td>Ileen Cronin</td>
<td>Cardiac Cath Lab</td>
</tr>
<tr>
<td>Melissa Jones</td>
<td>Cardiac Intensive Care Unit</td>
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<td>Christine Riley</td>
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<td>Lauren Daniels</td>
<td>Cardiac Intensive Care Unit</td>
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<tr>
<td>Summer Langston</td>
<td>Cardiac Intensive Care Unit</td>
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<tr>
<td>Caroline Burke</td>
<td>Cardiovascular Surgery</td>
</tr>
<tr>
<td>Charlotte Dampier</td>
<td>Cardiovascular Surgery</td>
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<td>Carla Rothgery</td>
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<tr>
<td>Cary McMahon</td>
<td>Cardiovascular Surgery</td>
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<tr>
<td>Diane Morrison</td>
<td>Cardiovascular Surgery</td>
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<tr>
<td>Elizabeth Moynihan</td>
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<tr>
<td>Lisa Ring</td>
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<tr>
<td>Andrea Stough</td>
<td>Cardiovascular surgery</td>
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<tr>
<td>Sheila Bostelman</td>
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<td>Vicki Freedenberg</td>
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<td>Beth Jarosz</td>
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<td>Carolyn Ramwell</td>
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<tr>
<td>Laura Norris</td>
<td>Heart Failure and Transplant</td>
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<tr>
<td>Colleen Iler</td>
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<tr>
<td>Kathleen Kalinger</td>
<td>Single Ventricle Program</td>
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### 2020-2021 Children’s National Cardiology Fellows

#### Third year fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Residency</th>
<th>Medical School</th>
<th>College</th>
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<tbody>
<tr>
<td>Valerie Curren, MBBCh</td>
<td>Residency Children’s Hospital Pittsburgh</td>
<td>Medical School</td>
<td>Royal College of Surgeons – Ireland</td>
</tr>
<tr>
<td></td>
<td>Medical School Colgate University</td>
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<tr>
<td>Jennifer Klein, M.D.</td>
<td>Residency Children’s National Medical Center</td>
<td>Medical School</td>
<td>Emory University School of Medicine</td>
</tr>
<tr>
<td></td>
<td>Medical School</td>
<td></td>
<td>Washington University in St. Louis</td>
</tr>
<tr>
<td>Bradford Ralston, M.D.</td>
<td>Residency Children’s Medical Center Dallas/UT Southwestern Medical Center</td>
<td>Medical School</td>
<td>Medical University of South Carolina</td>
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<tr>
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<td>Medical School</td>
<td></td>
<td>Vanderbilt University</td>
</tr>
<tr>
<td>Jennifer Schramm, M.D.</td>
<td>Residency Washington University in St. Louis – St. Louis Children’s</td>
<td>Medical School</td>
<td>University of Wisconsin - School of Medicine</td>
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<tr>
<td></td>
<td>Medical School</td>
<td></td>
<td>University of Wisconsin – Madison</td>
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<tr>
<td>Michelle Udine, M.D.</td>
<td>Residency University of Alabama Birmingham</td>
<td>Medical School</td>
<td>Robert Wood Johnson Medical School</td>
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<td>George Washington University</td>
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#### Second year fellows

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<thead>
<tr>
<th>Name</th>
<th>Fellowship Critical Care Medicine, Children’s National</th>
<th>Residency Children’s Hospital of Orange County</th>
<th>Medical School</th>
<th>Medical University of South Carolina</th>
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<tr>
<td>Marie Carillo, M.D.</td>
<td>Residency Hasbro Children’s Hospital - Brown University</td>
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<td></td>
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<td></td>
<td>Residency Trinity College</td>
<td>Medical School</td>
<td>University of Miami</td>
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<tr>
<td>Jonathan Nyce, M.D.</td>
<td>Residency Icahn School of Medicine – Mount Sinai</td>
<td>Medical School</td>
<td>University of North Carolina – Chapel Hill</td>
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<tr>
<td>Sarah Kollar, D.O.</td>
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<tr>
<td>Laura Lowrey, M.D.</td>
<td>Residency Medical University of South Carolina</td>
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<td>Mercer University School of Medicine</td>
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<tr>
<td>Priya Misra, M.D.</td>
<td>Residency Maria Fareri Children’s Hospital</td>
<td>Medical School</td>
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June 2019, simpler times

December 2019, celebrating the holidays

May 2020, Zooming but happy!
Please let us know if we can answer any questions about life in DC and at Children’s National!

<table>
<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valerie Curren</td>
<td>3rd</td>
<td><a href="mailto:vcurren2@childrensnational.org">vcurren2@childrensnational.org</a></td>
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<tr>
<td>Jennifer Klein</td>
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<tr>
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<td>2nd</td>
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<tr>
<td>Marie Carillo</td>
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<tr>
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<tr>
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<tr>
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