Introduction

Since the first description of balloon atrial septostomy (BAS) by Rashkind and Miller in 1966 for Transposition of Great Arteries (TGA), it has continued to be a life-saving procedure for many children born with Complex Congenital Heart Diseases by improving atrial level mixing before a definitive surgical correction can be performed\(^1\). Until recently, there were two commercially available balloon catheters in the US used for this procedure; the Miller balloon atrioseptostomy balloon catheter (Edwards Lifesciences, Santa Ana, CA) and the Z-5 atrioseptostomy catheter (Numed, Inc. Hopkinton, NY). Among the two available options, the most commonly used balloon catheter for performing bedside atrial septostomy procedure in the US (under echocardiographic guidance without use of fluoroscopy) was the Miller balloon atrioseptostomy catheter. However, due to reports of difficulty in balloon deflation, balloon fragmentation or detachment upon attempted retrieval, Edwards Lifesciences did a recall on the Miller Balloon Atrioseptostomy catheter.

FIGURE 1  Bedside table with access needle, 6 Fr sheath and 13.5 mm Z-5 balloon septostomy catheter prepared with negative pressure.
Balloon Atrial Septostomy Can Be Safely Performed At Bedside Using Z-5 Atrioseptostomy Catheter

Gurumurthy Hiremath, MD; John L Bass, MD; Katy Soule, PA-C; Kari Erickson, DNP, APRN; Jim Berry, RDCS; Varun Aggarwal, MD

Compelling Presentations Mark Third Heart Summit At Herma Heart Institute

Jeanne James, MD

Medical News

- Texas Children's Names Adult Congenital Heart Disease Program Leadership Team
- Practice Builders Announces New Automated Patient Acquisition Solution
- Congenital Heart Disease More Deadly In Low-Income Countries

Career Opportunities
The FDA classified this recall as Class 1, implying that the use of device may cause serious injury or death, https://www.fda.gov/medical-devices/medical-device-recalls/edwards-lifesciences-recalls-miller-and-fogarty-atrioseptostomy-dilation-catheters-due-balloon.

With the Miller balloon unavailable in the US, there has been concern about performing BAS at the bedside under echocardiographic guidance alone, using the Z-5 atrioseptostomy balloon catheter. Here, we aim to describe both the catheters and some tips and tricks for performing the bedside septostomy using the Z-5 atrioseptostomy catheter using a patient example.

**Miller Balloon Atrioseptostomy Catheter Edwards Lifesciences, Santa Ana, CA**

The Miller atrioseptostomy catheter has been a commonly used catheter for performing atrial septostomy bedside under echocardiographic guidance. This is a single lumen wire-wound balloon catheter with a 35 degree “hockey stick” angled tip to facilitate crossing the preexisting patent foramen ovale (PFO). The catheter has no end hole and takes a maximum volume of 4 cc, which results in a maximum balloon diameter of 19 mm. The advantages of this catheter are its soft and smooth tip, and relative ease of crossing the PFO without need for fluoroscopy. These properties make it extremely user-friendly especially for bedside procedures. The most frequent complications encountered with this catheter include failure of deflation, balloon rupture, fragmentation, detachment and embolization. Due to these concerns, the balloon was recalled from the market on March 28, 2019, https://www.fda.gov/medical-devices/medical-device-recalls/edwards-lifesciences-recalls-miller-and-fogarty-atrioseptostomy-dilation-catheters-due-balloon.

**Z-5 Balloon Atrioseptostomy Catheter NuMED, Inc., Hopkinton, NY**

The Z-5 Atrioseptostomy Catheter (Figure 5B) is a balloon catheter specifically designed for the neonate with Congenital Heart Disease requiring septostomy. It is a dual lumen balloon catheter (one lumen for a wire and the other lumen for the balloon inflation) and comes in two balloon sizes; 9.5 mm ± 0.5 mm non-compliant latex-free balloon, at 1.0 cc volume and a 13.5 mm ± 0.5 mm non-compliant latex-free balloon, at 2.0 cc volume.

The 9.5 mm catheter is primarily designed for infants under 2 kilograms. It can pass through a 5 Fr sheath and features an end hole that accommodates a 0.014” guidewire. The 13.5 mm catheter requires a 6 Fr sheath and features an end hole that accommodates up to a 0.021” guidewire. The inflated geometry of the balloon is a sphere. There is a radio-opaque band under the balloon for improved fluoroscopic visualization (Figure 2). The catheter tip is angled at 35° to facilitate passage through the PFO to the left atrium. To inflate the balloon of the 9.5 mm catheter to its maximum diameter, 1.0 cc of saline or diluted contrast (if using fluoroscopy) is injected into the balloon after purging. To inflate the balloon of the 13.5 mm catheter to its maximum diameter, 2.0 cc of saline or diluted contrast is injected into the balloon after purging. Catheters are supplied with a one-way stopcock for locking the balloon in inflated position while performing septostomy.

The advantages of this catheter include its low-profile balloon (5 and 6 Fr sheath compatibility for the two sizes respectively) and the presence of an end hole, which helps in advancing the catheter over a wire and also provides the ability to measure pressures and perform angiography to confirm position.

**FIGURE 2** Panel A: Z-5 septostomy balloon with angled tip and deflated balloon. Panel B: After full inflation. Panel C: deflation, the balloon tends to fold and develop wrinkles.
Septostomy At Bedside vs. In the Cardiac Catheterization Laboratory

Balloon atrial septostomy can be performed safely either at bedside under transthoracic echocardiographic guidance or in the cardiac catheterization laboratory using echocardiographic and fluoroscopic guidance.

The proponents of bedside atrial septostomy cite the advantages of speed, lack of radiation exposure, and avoiding risks of patient transfer from the ICU to the cardiac catheterization laboratory. Advantages of performing the procedure in the catheterization laboratory include access to fluoroscopy to help guide catheters, especially with difficult anatomies such as juxtaposed atrial appendages. In large studies comparing outcomes of septostomy at bedside vs. the cardiac catheterization laboratory, the outcomes and efficacy were similar.

Most interventional cardiologists who prefer bedside septostomy used the Miller atrioseptostomy catheter instead of the Z-5 catheter. There are reports in the pediatric interventional cardiology community of cardiologists moving away from bedside septostomy to the catheterization laboratory after the recall of the Miller septostomy balloon (personal communication). Concerns about use of the Z-5 atrioseptostomy balloon at bedside included the relatively stiff and blunt tip of the balloon catheter that may prove difficult to advance across the PFO without fluoroscopic guidance.

At our institution, BAS was routinely performed bedside using echocardiographic guidance with the Miller atrial septostomy balloon. After switching to the Z-5 atrial septostomy balloons, we found that bedside atrial septostomy can be performed with equal ease using this catheter.

Case Example

An urgent septostomy was necessary in a 3.2 kg newborn male born at 37w5d with D-Transposition of the Great Arteries and a restrictive atrial septal communication of approximately 2mm in size (Figure 3A). The procedure was performed at bedside with transthoracic echocardiographic guidance. The patient was intubated and on a conventional ventilator. Intravenous sedation and monitoring during the procedure were provided by neonatology staff. The right groin was prepared and draped in the usual manner. A bedside table was prepared with all the equipment necessary (Figure 1). Vascular access was obtained using the modified Seldinger technique using a micropuncture needle under ultrasound guidance. A 6 Fr sheath was placed in the right femoral vein over a 0.035 inch J wire that was visualized in the right atrium (Figure 5). A 13.5 mm Z-5 atrial septostomy balloon was inserted through the 6 Fr sheath and advanced to the atrial septum and across the ASD using echocardiographic guidance (Figure 4A and 4B). The balloon course was continuously visualized as it was advanced from the sheath using subcostal sagittal echocardiography (Figure 4B). Balloon position in the left atrium was confirmed. The balloon was inflated with 2 ml of saline, and withdrawn sharply to the right atrium and deflated (Figure 4C and 4D). This was repeated three times. Echocardiography confirmed an unrestrictive 5mm atrial communication (Figure 3B). The atrial septostomy catheter was removed safely and was intact. The entire procedure lasted less than 30 minutes.

FIGURE 3

Panel A: Subcostal sagittal echocardiographic images show a restrictive inter-atrial communication at baseline.

Panel B: shows a large unrestrictive atrial communication following successful atrial septostomy. (IAS: Inter-atrial septum; RA: Right atrium; LA: Left atrium)
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UC201900307a EN 01/2020
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**Important Labeling Information for the United States**

**Indications:** The Melody TPV is indicated for use in the management of pediatric and adult patients who have a clinical indication for intervention on a dysfunctional right ventricular outflow tract (RVOT) conduit or surgical bioprosthetic pulmonary valve that has moderate regurgitation, and/or a mean RVOT gradient ≥ 35 mm Hg.

**Contraindications:** None known.

**Warnings/Precautions/Side Effects:**
- **DO NOT implant in the aortic or mitral position.** Pre-clinical bench testing of the Melody valve suggests that valve function and durability will be extremely limited when used in these locations.
- **DO NOT use if patient's anatomy precludes introduction of the valve, if the venous anatomy cannot accommodate a 22 Fr size introducer, or if there is significant obstruction of the central veins.
- **DO NOT use if there are clinical or biological signs of infection including active endocarditis.** Standard medical and surgical care should be strongly considered in these circumstances.
- **Assessment of the coronary artery anatomy for the risk of coronary artery compression should be performed in all patients prior to deployment of the TPV.**
- **To minimize the risk of conduit rupture, do not use a balloon with a diameter greater than 110% of the nominal diameter (original implant size) of the conduit for pre-dilation of the intended site of deployment, or for deployment of the TPV.**
- **The potential for stent fracture should be considered in all patients who undergo TPV placement.** Radiographic assessment of the stent with chest radiography or fluoroscopy should be included in the routine postoperative evaluation of patients who receive a TPV.
- **If a stent fracture is detected, continued monitoring of the stent should be performed in conjunction with clinically appropriate hemodynamic assessment.** In patients with stent fracture and significant associated RVOT obstruction or regurgitation, reintervention should be considered in accordance with usual clinical practice.

Potential procedural complications that may result from implantation of the Melody device include the following: stent fracture *, stent fracture resulting in rupture of the RVOT conduit, compression of a coronary artery, perforation of a major blood vessel, embolization or migration of the device, perforation of a heart chamber, arrhythmias, allergic reaction to contrast media, cerebrovascular events (TIA, CVA), infection/sepsis, fever, hematoma, radiation-induced erythema, blistering, or peeling of skin, pain, swelling, or bruising at the catheterization site.

Potential device-related adverse events that may occur following device implantation include the following: stent fracture, stent fracture resulting in recurrent obstruction, endocarditis, embolization or migration of the device, valvular dysfunction (stenosis or regurigitation), paravalvular leak, valvular thrombosis, primary thromboembolism, hemolysis.

The term “stent fracture” refers to the fracturing of the Melody TPV. However, in subjects with multiple stents in the RVOT it is difficult to definitively attribute stent fractures to the Melody frame versus another stent.

For additional information, please refer to the Instructions for Use provided with the product or available on [http://manuals.medtronic.com](http://manuals.medtronic.com).

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Tips And Tricks For Bedside Septostomy With Z-5 Septostomy Catheter

A 0.035 inch J wire is preferred for sheath introduction as the tip is easily visible and atraumatic (Figure 5). We use the 21 G micropuncture needle for vascular access and then use the 4 Fr micropuncture dilator to exchange the 0.018" micropuncture wire for the 0.035" J wire. As the dilator and sheath reach the tip of the wire, the J straightens out, demonstrating the location of the dilator tip and avoiding injury to the heart. The sheath tip should be positioned in the IVC below the liver to avoid contact with the inflated balloon during the septostomy pull, which may result in inadvertent damage to the balloon.

Continuous echocardiographic guidance starting immediately after vascular access is extremely helpful. Subcostal imaging to show the IVC in long axis is helpful in guiding sheath placement, and to guide the septostomy catheter across the atrial septum in real time (Figure 4). If resistance is felt while advancing the catheter, the catheter could be entering side branches or hepatic veins. Special care should be paid with the 9.5 mm Z-5 balloon as it can inadvertently track into these small vessels relatively easily. Advancing a guidewire ahead of the septostomy balloon can prevent this from occurring. The catheter can also be pulled back and re-advanced slowly under real-time echocardiographic visualization with gentle rotation. The 35 degree tip angle helps to guide the tip across the atrial septum.

When taken out of the packaging, the tip of the balloon catheter is formed by the catheter shaft and deflated balloon that extends all the way to the tip, resulting in a blunt and non-tapered appearance (Figure 2A). After inflation and deflation, the balloon tends to fold and develop wrinkles (Figure 2B, 2C). Inflating and deflating the balloon outside the body can create an uneven balloon catheter tip that may make crossing the atrial septum difficult. The author’s personal preference is to prepare the Z-5 septostomy balloon with negative pressure prior to use without inflating the balloon.

The balloon must be well-visualized in the left atrium before the septostomy (Figure 4C). Special care and time should be spent on visualizing, so that the balloon is not inside a pulmonary vein or across the mitral valve. The balloon inflation volume should not exceed 1.0 cc for the 9.5 mm catheter, or 2.0 cc for the 13.5 mm catheter. Over-inflation could cause balloon rupture. The balloon is pulled into the right atrium with a fast, snapping motion. This pulling maneuver must be stopped at the inferior vena cava-right atrial junction (Figure 4D), and the balloon rapidly advanced back into the right atrium (since balloon is non-compliant, it does not conform to the shape of the IVC and may injure the vessel). Immediately deflate the balloon by applying negative pressure to the inflation device (a 3.0 cc syringe is recommended unless faster deflation is needed, then up to a 10.0 cc syringe may be used).

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**FIGURE 4** Subcostal sagittal echocardiographic images to guide the septostomy procedure. **Panel A:** The Z-5 atrioseptostomy catheter is advanced under echocardiographic guidance and real time visualization from the IVC to the right atrium. **Panel B:** The 35 degree angle catheter tip is turned to the atrial septum and guided into the LA. **Panel C:** The balloon is inflated in the LA and position is confirmed with echocardiography. **Panel D:** In one swift motion, the balloon is pulled across the atrial septum to the IVC-RA junction to create an atrial septal defect. (IVC: Inferior vena cava; RA: Right atrium; LA: Left atrium; Ba: Balloon; IAS: Interatrial septum)

**FIGURE 5** 0.035 inch J wire advanced from the right femoral vein through the IVC with the tip in the right atrium. (IVC: Inferior venacava; RA: Right atrium; LA: Left atrium)
Summary

In our experience, bedside atrial septostomy with the Z-5 balloon atrioseptostomy catheter is feasible, safe, and can be performed with relative ease with proper technique and echocardiographic guidance. Concerns about the need to take all children to the catheterization laboratory for a septostomy with Z-5 balloon catheter may not be warranted.

References


CAREER OPPORTUNITIES

Pediatric Interventional Cardiologist

The Heart Institute (HI) at Cincinnati Children’s Hospital Medical Center (CCHMC) seeks applications for a BE/BC Pediatric Cardiologist with additional sub-specialty training in Congenital Catheterization. Applicants should ideally be at the Associate Professor level (or above).

The HI is an internationally recognized academic center of excellence for Pediatric (congenital and acquired) and Adult Congenital Cardiac Care, and clinical and basic science research. The HI incorporates the Divisions of Congenital Heart Disease, Cardiothoracic Surgery and Molecular Cardiovascular Biology. It offers the full range of Pediatric Cardiac services within a free-standing not-for-profit tertiary care medical center. The HI also serves to train categorical Pediatric Cardiology and sub-specialty fellows in all areas of congenital heart disease practice (including fourth year Interventional Catheterization). Academic appointment within the Children’s Hospital is through the Department of Pediatrics at the University of Cincinnati College of Medicine.

The Cardiac Catheterization Service performs more than 1000 procedures on an annual basis, with the majority involving therapeutic interventions. The facility includes three hybrid-ready catheterization procedure rooms staffed with dedicated nursing and radiology technology staff, and three catheterization Advanced Nurse Practitioners. All procedures are supported by Cardiac Anesthesia and Cardiac Intensive Care Services (as required).

The applicant would be expected to assume responsibility for clinical services including (but not limited to):

- Interventional and hybrid cardiac catheterizations within the existing Catheterization program
- Development of novel or advanced interventional procedures / techniques / niche interventions
- Provide on-call catheterization coverage on a rotating basis
- Perform a single out-patient clinic on a weekly basis
- Provide limited periods of in-patient and / or consult service coverage
- Participate in all Institute clinical and management conferences
- Perform teaching and instruction commensurate with the training mission of the Institute / Institution
- Participate and contribute to relevant Quality Assurance / Process Improvement programs within the scope of practice
- Contribute to all on-going active research within the Cardiac Catheterization Service

The Heart Institute and Cardiac Catheterization Service pride themselves on excellent clinical outcomes, whilst maintaining a strict academic focus, research productivity and exemplary professionalism. The acceptable candidate would be expected to maintain similar high standards of clinical service.

Interested candidates should address all inquiries to:
Andrew Redington, MD
Co-Director, The Heart Institute
Cincinnati Children’s Hospital Medical Center
andrew.redington@cchmc.org
Compelling Presentations Mark Third Heart Summit At Herma Heart Institute

Jeanne James, MD

In October 2019, the Herma Heart Institute at Children's Wisconsin held its third annual Heart Summit, welcoming pediatric cardiologists and cardiothoracic surgeons from across the United States and around the world for a unique learning event. This year’s summit focused on “Management of the Failing Fontan: A Look Into the Future,” offering real-time surgical and cardiac catheterization demonstrations, as well as lectures on the unique yet disparate morphologies of single ventricle physiology associated with isomerism and heterotaxy syndrome.

Cornerstone Presentation

The Heart Summit has become known for the innovative use of 3D intraoperative video presentations broadcast in real time to attendees in the auditorium. This year did not disappoint. Noted surgeon Viktor Hraska, MD, PhD, Medical Director of Cardiothoracic Surgery and Surgical Director of the Herma Heart Institute, performed a Fontan completion in a 10-year-old girl. The patient was a unique case: In addition to her univentricular heart, she had only one functioning lung. The Fontan operation generally is performed between 18 months and three years, but was contraindicated for this patient at the typical age for Fontan completion due to elevated Glenn pressure, pulmonary venous obstruction and evidence that her left lung was not participating in significant oxygen exchange.

During the surgery, Dr. Hraska performed not only the Fontan anastomosis, but also a novel procedure — turndown of the innominate vein to the right atrium, an innovative technique intended to lessen lymphatic congestion by providing a “pop-off” for potentially elevated Glenn and Fontan pressures. Dr. Hraska is well-acquainted with the turndown procedure, having performed it eight times while practicing in Europe.

Summit attendees were able to see the procedure in phenomenal detail via the live broadcast, and they enjoyed the opportunity to ask Dr. Hraska questions in real-time during the procedure. One of the expert panelists shared that watching the intraoperative 3D video gave him chills. Despite having more than 30 years of experience working in the field, he explained, he had never been able to visualize what happens in the operating room with such clarity.

More Learning Opportunities

In addition to the live, interactive broadcast of the Fontan procedure and innominate vein turndown, conference attendees participated in multiple sessions over the course of the three-day Heart Summit.

There were two real-time demonstrations of patients undergoing catheterization in preparation for Fontan completion surgery.
Survey On Childhood Immunization Recommendations In Congenital Heart Disease

**WHO** Medical professionals (nurses, doctors) who work in pediatric cardiology

**WHAT** 5 minute survey - respond only once

**WHY** Conducting a survey to understand the advice that medical professionals give regarding immunizations in pediatric cardiology patients

**Sample Question**

Standard immunizations are generally scheduled for the first 6-8 weeks of life, a time when some congenital heart patients may present with symptoms. We aim to survey a large group of medical professionals (nurses, doctors) who work in pediatric cardiology about their practice to understand the current practice.

In order to gain a better understanding of the assessment of the risk of immunizations with certain lesions by pediatric cardiology medical professionals, we are studying the approach to hypothetical scenarios which present commonly and may impact the decision to proceed with the first scheduled immunization.

If you would ordinarily be consulted for immunization advice in pediatric patients with structural and/or genetic heart disease that present in infancy (eg, LVOT obstruction, cardiomyopathy, VSD), we would be grateful if you would complete our short survey.

**Share the Survey**

https://rc.bcchr.ca/redcap/surveys/?s=YMFH9R7AKK

Thank you,

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Dr Manish Sadarangani MRCPCH, DPHIL, BM.BCh, MA
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BC Children's Hospital
University of British Columbia
Vancouver, CANADA

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Faculty Position
Division of Cardiac Imaging

The Division of Cardiac Imaging, Department of Cardiology at Boston Children’s Hospital is actively recruiting a faculty physician to join our world-renowned cardiac imaging team. Candidates must be Board Certified or Eligible in Pediatric Cardiology. Candidates at all career stages who possess strong clinical, research, and teaching abilities are encouraged to apply. Valued clinical skills include echocardiography, cardiac magnetic resonance, and computed tomography. Faculty will be eligible for appointment at Harvard Medical School.

The Division of Cardiac Imaging at Boston Children’s Hospital is one of the largest imaging programs for children and adults with congenital heart disease in the United States. Its activities include transthoracic echocardiography, transesophageal echocardiography, fetal echocardiography, cardiac magnetic resonance, and cardiac computed tomography. A high proportion of cases have complex disease and undergo image-guided interventions. Equipment includes state-of-the-art imaging, reviewing, and reporting technology. Resources for conducting clinical, basic science, and translational research are abundant throughout the Department. Academic advancement through research and teaching activities is strongly encouraged and supported. We have a highly-regarded senior fellowship program in cardiac imaging and train 2-3 senior fellows each year.

Interested candidates should send their curriculum vitae to:

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and a breakout poster session where trainees and junior faculty presented their latest findings in Congenital Heart Disease research and quality improvement initiatives. Presentations from geneticists and pulmonologists expanded on recent work in their fields; notably, the findings from Herma Heart Institute physicians that challenge previous dogma about exercise for Fontan patients, who should indeed exercise more, not less. Lively discussions among attendees and presenters were a common and welcome feature at each session.

Lectures during the third day of the Heart Summit focused on isomerism and Heterotaxy Syndrome, which sometimes occurs in patients with complex congenital heart defects. Robert Anderson, MD, PhD, of the Institute of Child Health at University College London and keynote speaker at the opening of the summit, presented a lecture on isomerism and Heterotaxy Syndrome, complete with high-definition displays of four affected hearts on loan from the Farouk Idriss Archives at the Anne and Robert H. Lurie Children's Hospital in Chicago. Patients who present with heterotaxy are among the most high-risk of single-ventricle patients and, to date, have the lowest long-term survival rates. Understanding the anatomy of these patients is an important step to removing obstacles for treatment, preparing them to be the best possible surgical candidates and preventing postoperative complications.

In this third occurrence of the Heart Summit, pediatric cardiologists, surgeons and advanced practice providers enjoyed an innovative and unique learning opportunity that combined different modalities — not only standard lectures but video, live 3D surgery, broadcasts from the catheterization laboratory, and virtual reality teaching — all enhanced by a highly interactive format.

Coming in 2020

The next Heart Summit is slated for October 28th-30th, 2020, in Milwaukee, Wisconsin, where our topic will be “Decision Points in Conotruncal Malformation.” Drs. Shakeel Qureshi, John Cheatham and Robert Anderson will be among our speakers. Earlier that week, Dr. Anderson will host a pre-Summit anatomy fellowship lecture series that is open to all interested cardiac trainees.

We hope that you will join us for the 2020 Heart Summit. Find the agenda and registration information at http://childrenswi.org/heartsummit.

The 3D glasses used throughout the Heart Summit give an element of depth that is otherwise often unseen

JEANNE JAMES, MD
Medical Director of Pediatric Cardiology
Herma Heart Institute
Children's Wisconsin
Milwaukee, WI, USA

The congenital heart professionals network exists to facilitate communications between congenital heart professionals locally, regionally, and globally.

JOIN TODAY www.chip-network.org
KEYNOTE SPEAKER

Dr. Sanjay Gupta

Dr. Sanjay Gupta is the multiple Emmy award winning Chief Medical Correspondent for CNN.

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- Fellows Summit for Complex Cases
- Global Summit and Case Exchange
- Innovations and Technology Summit
- Live Cases
- TAVR Academy
- Transseptal Workshop
- Women in Innovations (SCAI-WIN) Sessions

Registration is open.
For more information, visit www.scai.org/SCAI2020
Faculty Position In Pediatric Cardiology
University of South Alabama College of Medicine

As part of efforts to expand its scholarly and clinical activities, the Department of Pediatrics at the University of South Alabama College of Medicine is currently seeking a BC/BE candidate for a faculty position in Pediatric Cardiology.

USA Pediatric Cardiology currently has more than 3000 outpatient encounters per year, including almost 300 fetal echoes performed in the only ICAEL-accredited fetal echo lab in Alabama. Other services include a rural outreach clinic and a telemedicine clinic for patients with adult congenital heart disease conducted jointly with a regional ACHD specialist. Inpatient care is provided at the USA Health Children’s and Women’s Hospital, the primary referral center for the region and home to the area’s only Level III neonatal intensive care unit, with approximately 900 admissions yearly. Patients requiring cardiac surgery are referred to regional surgical centers primarily in Alabama and Mississippi. Other duties include teaching medical students and pediatric residents.

Candidates should have completed fellowship training in Pediatric Cardiology and be board certified or board eligible. Level of appointment is open and will be commensurate with training, experience, and academic productivity. We offer competitive compensation and benefits. This is an outstanding opportunity to join a collegial, diverse, expanding department committed to providing its faculty with the opportunity to achieve academic and professional growth while enjoying the climate, affordability, and high quality of life of the central Gulf Coast.

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USA is an EO/AA Employer - minorities/females/veterans/disabilities/sexual orientation/gender identity
Texas Children’s Hospital is proud to announce two new leaders of the Adult Congenital Heart Disease (ACHD) Program at Texas Children’s Heart Center®. Dr. Peter Ermis serves as Medical Director of the ACHD Program and Dr. Edward Hickey began serving as Surgical Director of the ACHD Program in October, 2019. Together, the esteemed cardiologist and cardiovascular surgeon will guide the largest ACHD program in the state. Texas Children’s is ranked #1 in the nation for cardiology and heart surgery by U.S. News & World Report.

Texas Children’s ACHD Program allows patients with Congenital Heart Disease to receive seamless continuity of care from birth throughout adulthood. As pediatric patients with congenital heart defects transition into adulthood, the program’s multidisciplinary team of experienced Congenital Heart Disease specialists advises them on health and lifestyle choices for their adult needs, including physical challenges, exercise options and family planning. The program offers comprehensive medical and surgical care in collaboration with colleagues at Texas Children’s Pavilion for Women® and Texas Children’s Fetal Center®. The hospital's ACHD Program is accredited by the Adult Congenital Heart Association (ACHA) and is one of only three programs accredited in Texas.

Dr. Ermis, a native Houstonian and dedicated member of Texas Children’s ACHD Program team since 2014, also serves as Assistant Professor at Baylor College of Medicine.

“I’m honored to take on a leadership role in the program where I began my cardiology career,” said Dr. Ermis. “As this population of patients grows, it is even more important they are cared for by Congenital Heart Disease specialists who recognize their specific needs as they transition to and live through adulthood. Our team is revolutionizing the way we care for these patients and I look forward to continuing to do so in partnership with Dr. Hickey.”

Dr. Ermis received his undergraduate degree at Rice University. He earned his medical degree from the University of Texas Health Science Center at San Antonio and went on to complete his residency and pediatric and adult cardiology fellowship at Baylor. He is board certified in Pediatric Cardiology, Adult Cardiology and Adult Congenital Heart Disease. Dr. Ermis is a fellow in the American College of Cardiology and member of the American Academy of Pediatrics, Texas Heart Institute Cardiac Society and the International Society on Adult Congenital Heart Disease.

Dr. Hickey, a recognized leader in cardiovascular surgery, most recently served as Associate Professor of Cardiac Surgery at the University of Toronto and Cardiac Surgeon and Chief of the ACHD Program at The Hospital for Sick Children. In addition to his leadership role, he will also perform congenital heart surgeries and serve as Associate Professor of Surgery at Baylor.

“I’m thrilled to join Texas Children’s and lead the ACHD Program alongside Dr. Ermis,” said Hickey. “Treating these unique patients requires dedication from an entire team and it is evident Texas Children’s is paving the way in this field. I’m looking forward to joining this innovative and collaborative group as we continue to develop tailored approaches for our patients.”

Dr. Hickey received a Bachelor of Medicine degree from the University of Southampton in the UK, where he also completed his general surgery residency. He went on to complete higher surgical training in cardiothoracic surgery and simultaneously earned his Doctor of Medicine Research thesis from Oregon Health & Science University and the University of Southampton, respectively. Dr. Hickey then received the John Kirklin Fellowship from the Congenital Heart Surgeons’ Society, University of Toronto and spent two years at The Hospital for Sick Children. He also completed residency training in cardiovascular surgery at the University of Toronto followed by a clinical fellowship in congenital heart surgery.

To learn more about Texas Children’s ACHD Program, visit https://www.texaschildrens.org/achd.
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Join one of the largest pediatric cardiology practices in Northern, VA
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Pediatric Cardiology Associates, the largest and most sub-specialized Pediatric Cardiology practice in Northern Virginia and Maryland area, is seeking a pediatric cardiologist to join our team of 15 BC pediatric cardiologists and 3 advanced practice clinicians. The practice provides full cardiology services to a rapidly expanding population.

- The practice currently provides inpatient cardiology services at Inova Children’s Hospital, as well as inpatient cardiology consultation, at nine area hospitals. Inova Children’s Hospital performs over 250 cardiac surgeries each year. There is a busy interventional electrophysiology service in addition to interventional and diagnostic catheterization.
- Outpatient services include general pediatric cardiology, fetal cardiology, electrophysiology, preventive cardiology and cardiopulmonary exercise stress testing.
- Research and teaching opportunities are available due to our close affiliation with Inova.
- Experience in both general and fetal cardiology is beneficial.
- Potential candidates should have additional training and/or at least three years of experience in TEE; fetal and TTE imaging.

Located just outside the nation’s capital city, Fairfax, VA, is a must-visit community filled with exciting attractions and engaging activities for residents and visitors of all ages and interests. Voted among the Best Places to Live in 2017 by Livability.com, Fairfax offers a top-notch quality of life, offering a strong economy, highly rated schools, more than 220 acres of parkland, convenient transportation choices, and a thriving arts community. It has also listed as one of the "Best College Towns" on a myriad of sites. With all that it has to offer, it's no wonder Fairfax is a great option for families who want to combine big city living with suburban safety and quality of life.

Apply Here

Benefits
Our clinicians enjoy a competitive compensation package with many locations offering sign on bonuses, relocation and tuition reimbursement. *Our benefits include:

- Health (various options), life, vision, dental and disability insurance
- 401(k) with annual matching program
- Advanced and continuing medical education
- Leadership training and advancement opportunities
- Employee stock purchase plan at a 15% discount
- Professional liability insurance
- Support and payment for mandatory license/s and hospital credentialing

*These benefits are for full time employees. Employees in other types of employment classifications may be eligible for some of these benefits.

About MEDNAX
With a 40-year record of success, MEDNAX has grown from a single medical practice to a trusted health solutions partner. As part of our national medical group, we give you the tools you need to build the career you want, and the flexibility to adapt as your personal needs and professional interests change.

We invite you to grow with us and help shape the future of health care.

MEDNAX is an Equal Opportunity Employer
All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.
Practice Builders Announces New Automated Patient Acquisition Solution

The Online Physician Reputation Builder Launches the myPracticeReputation™ Platform

For more than 40 years, Practice Builders, has been an industry leader helping physicians and medical practices attract new patients. The company recently announced the launch of the myPracticeReputation™ (myPR) platform, an automated patient acquisition solution to enhance the online reputations of physicians and medical practices.

The myPR platform is an easy-to-use reputation management solution designed to enable users to showcase the practice as well as their physicians’ standard of quality care. The platform helps decrease staff workload and ultimately helps them achieve desired objectives of increasing patient volume and additional revenue for the practice. It does so in the following ways:

- Uses automated practice marketing, which strengthens clients’ reputations with automated reviews, improving the average rating by 1.3 stars.

- Increases visibility by placing clients at the top of search results with optimized Google My Business (GMB) listings.

- Helps grow revenue with targeted ads that leverage listings strategically placed and aimed at specific patient populations, increasing patient volume and profitable market share.

- Leverages automation and integration, seamlessly integrating with more than 60 practice management and electronic medical records systems.

“Our focus continues to be on supporting physicians,” said Sharon Mason-Parker, CEO of Practice Builders. “myPR enhances our ability to help practices thrive; it gives practices the power to take charge of their online reputation and to attract, connect, convert and retain patient populations.”

Practice Builders provides clients with important practice-management marketing solutions that meet specific needs and objectives. Until now, services and products have included:

- One-stop marketing solution partner and resource offering competitive pricing,

- Customized client-owned website that fits the needs of the practice,

- Specialized healthcare marketing expertise,

- Multiple marketing products, services and custom solutions such as SEO, social media, video and content marketing, and

- On-demand services, training and much more.

The platform launched in December 2019. For more information, email info@practicebuilders.com, call 855.898.2710 or visit https://www.practicebuilders.com.

Neonatology Today is interested in publishing manuscripts from Neonatologists, Fellows, NNPs and those involved in caring for neonates on case studies, research results, hospital news, meeting announcements, and other pertinent topics.

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Adult Congenital Heart Disease Physician

Maine Medical Center is seeking a full time Adult Congenital Heart Disease (ACHD) physician to join their group. The Cardiovascular Service Line at Maine Medical Center allows for integrated care across disciplines of pediatric cardiology, adult cardiology, interventional cardiology, electrophysiology, cardiothoracic surgery and vascular surgery. Congenital Heart has been the premier Congenital Cardiology Practice in the state of Maine for over 50 years and recently partnered with Maine Medical Partners and MaineHealth to continue providing state-of-the-art care for children and adults with congenital heart disease. Commensurate with this partnership is the opportunity to formalize an ACHD program to serve the burgeoning population in Maine. The Adult Cardiac Surgery program is well established with an annual volume of over 1,100 cases. The Congenital Surgery program is the only comprehensive Congenital Heart program in Northern New England and has provided surgical care in the state for the past 25 years. Comprehensive congenital interventional services have been provided for over 20 years including state of the art devices and approaches. Adult interventional services include a robust percutaneous valve program with over 150 transcatheter aortic valve replacements in 2018.

The ideal candidate would be BE/BC in Pediatric Cardiology or Adult Cardiology and BE/BC in ACHD with appropriate academic appointments. Responsibilities would include overseeing an ACHD service that provides both inpatient consultative services and outpatient care through multidisciplinary clinics with the expectation of having the program accredited. Research opportunities are available with established research institutes like the Maine Medical Cardiovascular Research Institute (MMCRI) and academic appointments at Tufts University.

Maine Medical Partners is a division of Maine Medical Center and is Maine’s largest multi-specialty medical group serving the healthcare needs of patients locally and throughout northern New England. This high quality team of nearly 600 physicians and 300 advanced practice professionals provides a wide range of hospital based, primary, specialty, and sub-specialty adult and pediatric care delivered throughout a network of 30 locations across the State and acts as a regional referral network.

Maine Medical Center (MMC) has 637 licensed beds and is the state’s leading tertiary care hospital and Level One Trauma Center, with a full complement of Residencies and Fellowships and an integral part of Tufts University Medical School.

Situated on the Maine coast, Portland offers the best of urban sophistication combined with seaside charm. The Old Port area receives tourists from around the world with nationally recognized restaurants, breweries, and hotels. In fact, Portland was recently named “2018 Restaurant City of the Year” by Bon Appétit Magazine. The area has an active outdoor community providing four-season recreational opportunities such as skiing, hiking, sailing, and miles of beautiful beaches. Just two hours north of Boston, this is an exceptionally diverse and vibrant community.

For more information, please contact:
Gina Mallozzi
Physician Recruiter
207.661.2092
gmallozzi@mainehealth.org
Despite tremendous advances in the treatment of CHD, the first comprehensive estimate of prevalence and mortality finds major differences between high-income and low-income countries

Children’s National Hospital

Even though mortality from Congenital Heart Disease (CHD) has declined over the last three decades as diagnosis and treatments have advanced, the chances for a child to survive a CHD diagnosis significantly differs based on the country where he or she is born.

This eye-opening finding is drawn from the first comprehensive study of Congenital Heart Disease across 195 countries, prepared using data from the Global Burden of Diseases, Injuries and Risk Factors Study 2017 (GBD), and recently published in The Lancet. https://www.thelancet.com/journals/lanchi/article/PIIS2352-4642(19)30402-X/fulltext

“Previous congenital heart estimates came from few data sources, were geographically narrow and did not evaluate CHD throughout the life course,” write the authors, known collectively as the 2017 GBD Congenital Heart Disease Collaborators. Co-lead author Meghan D. Zimmerman, MD, worked on the study while completing her Pediatric Cardiology and American Heart Association Global Health Fellowships at Children’s National Hospital, and two pediatric cardiologists from Children’s National, Cardiology Associate Chief Craig Sable, MD, and Gerard Martin, MD, Medical Director of Global Services, provided leadership and oversight of this paper. The remaining collaborators are from more than 45 institutions around the world, spanning cardiology, public health and schools of medicine on every continent.

This is the first time the GBD study data was used along with all available data sources and previous publications—making it the most comprehensive study on Congenital Heart Disease burden to date. Key differences between this study and prior estimates include:

• Anatomic groupings of CHD by type, rather than simply categorized as moderate, severe or critical.
• Inclusion of new data sources, including data from screening programs, congenital registries, administrative data and data sources in mortality and survival.
• A control mechanism to account for cases of CHD that remit on their own to reduce the risk of overestimating prevalence.
• Inclusion of all cases of Congenital Heart Disease, including those with chromosomal or genetic anomalies such as Trisomy 21 that often co-occur.

This more comprehensive data set led to findings that showed lower predicted long-term survival, higher remission, and lower prevalence than previous studies that extrapolated evidence from studies of high-income countries. However, it also means these new estimates are a more accurate representation of the current global state of affairs. Overall, the study found:

• A 34.5% decline in deaths from Congenital Heart Disease between 1990 to 2017.
• Nearly 70% of deaths caused by CHD in 2017 (180,624) were in infants less than one year old.
• Most CHD deaths occurred in countries within the low and low-middle socio-demographic index (SDI) quintiles.
• Mortality rates get lower as a country’s SDI rises.
• Birth prevalence of CHD was not related to a country’s socio-demographic status, but overall prevalence was much lower in the poorest countries of the world. This is because children in these countries do not have access to life saving surgical services.
• Nearly 12 million people are currently living with CHD globally, 18.7% more than in 1990.
• The burden of CHD is not fully realized by just looking at prevalence and mortality. The measure “Years of Life Lost” provides deeper insight into the staggering burden of CHD, taking into account both absolute mortality and age at death.

“In high income countries like the United States, we diagnose some heart conditions prenatally during the 20-week ultrasound,” says Dr. Martin, a Pediatric Cardiologist at Children’s National Hospital who contributed to the study. "We catch others right after birth with a pulse oximetry screening for critical Congenital Heart Disease. We can operate to correct a critical issue within the first week of life. And now our CHD kids are growing and thriving through adulthood and having families of their own.”

“For children born in middle- and low-income countries, these data draw stark attention to what we as cardiologists already knew from our own work in these countries--the lack of diagnostic and treatment tools leads to lower survival rates for children born with CHD,” adds Dr. Sable. “This is one of the most significant publications I have been a part of as it highlights the substantial loss of life to CHD in infancy around the globe.”

The authors write, “The UN has prioritized reduction of premature deaths from heart disease, but to meet the target of ‘ending preventable deaths of newborns and children under five years of age,’ health policy makers will need to develop specific accountability measures that address barriers and improve access to care and treatment.”

The study also includes a 400-page appendix breaking down each area by type of congenital anomaly, world region and country.
CAREER OPPORTUNITIES

The Heart Institute at the
UPMC Children’s Hospital of Pittsburgh
is EXPANDING!

With a strategic plan for growth and expansion, the Division of Cardiology within the Heart Institute of the UPMC Children’s Hospital of Pittsburgh / University of Pittsburgh School of Medicine is recruiting additional faculty positions.

Director of Pediatric Non-Invasive Imaging (Echocardiography Laboratory)

For this leadership level position, the applicant should have strong expertise in non-invasive imaging including all forms of echocardiography, and/or cardiac MRI & cardiac CT. In addition, evidence of solid leadership skills to take the Director role and help build up the Non-Invasive Imaging Program, working closely with division chief and hospital leadership. Candidates must have completed a 4th year pediatric imaging advanced fellowship. Faculty will join an outstanding imaging team: Including 11 echocardiographers, 16 pediatric sonographers in a highly productive echo lab – with over 20,000 echocardiograms annually, including over 1600 fetal echo’s and 550 TEE’s.

Echocardiography program covers Children’s Hospital, Magee Women’s hospital and multiple outreach sites and a robust tele-echo program. Further collaboration with the adult cardiology program for ACHD cMR program is anticipated, as well as with Radiology enhancing the cardiac MRI program, and MFM colleagues to expand the Fetal Cardiac Program. Candidates must be board-eligible/certified in pediatric cardiology.

Director of Clinical Services

The Heart Institute is seeking an exceptional individual to lead the Clinical Services within the Division of Cardiology, working directly with the Division Chief and Heart Institute Leadership in the supervision and development of clinical services, program building and expansion. The applicant should have demonstrated evidence of leadership qualities and achievements in clinical care. A strong commitment to excellence, integrity, collegiality and professionalism is a must. Applicants should be ideally at the Associate Professor level (or above), and board certified in pediatric cardiology.

Adult Congenital Heart Disease Faculty

The Division of Cardiology at UPMC Children’s Hospital of Pittsburgh/University of Pittsburgh School of Medicine is recruiting for additional faculty to join the Adult Congenital Heart Disease (ACHD) program. The well-established ACHD program is currently supported by 2 ACHD physicians (including one ACHD Director), 2 advanced practice providers, a dedicated RN, research coordinator and social worker. The applicant should have expertise in the management of adult congenital heart disease with prominent clinical, teaching and research skills. He or she will be working closely with division chief, ACHD Director and hospital leadership to support program expansion. Candidates must be board-eligible/ certified in pediatric cardiology or adult cardiovascular diseases and in adult congenital heart disease.

Imaging Faculty With Expertise In Echocardiography Including Fetal

We are recruiting for a full-time non-invasive imaging faculty with expertise on TTE, TEE and FETAL echocardiography. Completion of a 4th year imaging fellowship plus skill and independence in transesophageal echocardiography is a requirement.

Imaging faculty will join an outstanding team: Including eleven echocardiographers, 16 pediatric sonographers in a highly productive echo lab – with over 20,000 echocardiograms, including over 1600 fetal echo’s and 550 TEE’s.

Echocardiography program covers Children’s Hospital, Magee Women’s hospital and multiple outreach sites and a robust tele-echo program. Further collaboration with the adult cardiology program for ACHD cMR program is anticipated, as well as with Radiology enhancing the cardiac MRI program, and MFM colleagues to expand the Fetal Cardiac Program. Candidates must be board-eligible/certified in pediatric cardiology.

The Heart Institute provides comprehensive pediatric and adult congenital cardiovascular services to the tri-state region and consists of 27 pediatric cardiologists, 5 pediatric cardiothoracic surgeons, 8 pediatric cardiac intensivists and 9 cardiology fellows along with 19 physician extenders and a staff of over 100. We are honored to be ranked #3 nationally and #1 in Pennsylvania for pediatric cardiology and heart surgery by U.S. News and World Report. Our Cardiac surgical program is one of the top in the country, with a 3-star rating from Society of Thoracic Surgery (STS).

UPMC Children’s Hospital of Pittsburgh has been named one of the top U.S. News & World Report’s Best Children’s Hospitals. Consistently voted one of America’s most livable cities, Pittsburgh is a great place for young adults and families alike.

The position comes with a competitive salary and faculty appointment commensurate with experience and qualifications at the University of Pittsburgh School of Medicine. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. Interested individuals should forward letter of intent, curriculum vitae and three (3) letters of references. Informal inquiries are also encouraged.

For more information, please contact: Jacqueline Kreutzer, MD, FSCAI, FACC
Chief, Division of Pediatric Cardiology
UPMC Children’s Hospital of Pittsburgh, 4401 Penn Avenue, Pittsburgh, PA 15224
Jacqueline.Kreutzer@chp.edu or 412.692.3216

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The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity, EOE, including disability/vets
Chief of Pediatric Cardiology Imaging

Children’s Physician Services of South Texas, (CPSST) a group affiliated with Driscoll Children’s Hospital is advancing a comprehensive Heart Center to meet the healthcare needs of congenital heart patients in South Texas. CPSST is recruiting a BC/BE Cardiologist with expertise in cardiac imaging. The ideal candidate will have at least five years’ experience as a dedicated echocardiographer, 4th year training in echocardiography a plus.

The position offers a sign-on bonus, competitive compensation package, excellent benefits, generous paid time off, holiday pay, CME allowance and retirement plans.

Driscoll Children’s Hospital is a freestanding children’s hospital in Corpus Christi, Texas. The Heart Center has committed substantial space for the creation of an imaging lab that can centralize studies, including telemedicine communication for outpatient studies around the region. Current imaging faculties (2) have expertise in MRI and fetal imaging. In addition, the Driscoll Heart Center includes one electrophysiologist, two interventional cardiologists, numerous outpatient cardiologists and a team of congenital heart surgeons. Driscoll is a regional referral center for South Texas with supporting practices in Laredo, McAllen, and Brownsville. Visit our website for more information Driscollchildrens.org

Corpus Christi, Texas is a wonderful place to work, live and play! This is a dynamic coastal city with miles of beautiful beaches, world-class sailing and windsurfing. The mild climate allows for year-round outdoor family activities such as golf, cycling, and tennis. The cost of living is low, and there is no state income tax.

For more information, contact:

Lori Smith
Director of Physician Relation and Recruitment
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M. 361.331.1311
lori.smith@dchstx.org
MEETING CALENDAR

APRIL

16-18

EPIC-SEC
Atlant, GA, USA
https://www.epicsec.org/

17-18

17TH ANNUAL CHICAGO SONOGRAPHER UPDATE-ECHOCARDIOGRAPHIC ASSESSMENT OF COMMON CONGENITAL HEART DISEASE AND CORONARY ARTERY IMAGING
Chicago, IL, USA
https://www.luriechildrens.org/sonographer

24-25

BEYOND PRETTY PICTURES - 3D ECHOCARDIOGRAPHY IN CONGENITAL HEART DISEASE
Edmonton, Alberta, Canada
http://www.pedsecho.ca/beyond-pretty-pictures-2020/

MAY

02

ACHA MICHIGAN REGIONAL CONFERENCE
Grand Rapids, MI, USA
https://www.achaheart.org/get-involved/events/?c=1655

07-10

FELLOWS 2020 INTERVENTIONAL CARDIOLOGY FELLOWS COURSE
Orlando, FL, USA
https://www.crf.org/fellows

13-16

SCAI 2020 SCIENTIFIC SESSIONS
Atlanta, GA, USA
http://www.scai.org/SCAI2020