The Pulse - December 2018

The Pulse is a summary of relevant news and articles for Congenital Heart Professionals and highlights:

What's Been Happening?
Featured Science
Congenital Cardiology Today Latest Issue
ACHA Webinar
Research
Recruitment Opportunities
CHIP Network Partner Organizations

What's Been Happening?

Pediatric Cardiology Links

[UK campaign to make heart defect monitors available for all newborns](#)
Google Alerts: Gibraltar Chronicle

[American Heart Association Urges Screen Time Limits for Youth](#)
Google Alerts: HealthDay

[Largest pediatric study shows obesity increases asthma risk in children](#)
Feedly: EurekAlert

[In Memoriam: Coggin, 90, helped take open-heart surgery team overseas](#)
Google Alerts: Loma Linda University Health

[Incidence and impact of early postoperative ventricular arrhythmias after congenital heart surgery](#)
Google Alerts: MD Linx

[Caring for Kids: Advocating for children of all religions, ages and health histories](#)
Feedly: Crain’s Detroit Business
Transgelin Protein May Provide Clues on PAH Progression in Congenital Heart Disease, Study Says
Google Alerts: Pulmonary Hypertension News

AHA.18: What needs to change to improve CHD outcomes in kids
Google Alerts: Cardiovascular Business

Competitive sports appear safe for young athletes with ICDs
Google Alerts: Cardiovascular Business

Recommendations for participation in competitive and leisure sports in patients with congenital heart disease: a consensus document
Google Alerts: SAGE Journals - SAGE Publications

Echocardiographic Screening for Pulmonary Hypertension in Congenital Heart Disease
Google Alerts: JACC

100 hospitals and health systems with great heart programs | 2018
Feedly: Becker’s Hospital Review

AI outperforms cardiologists in detecting heart murmurs, study suggests
Google Alerts: Becker’s Hospital Review

Association of initially normal coronary arteries with normal findings on follow-up echocardiography in patients with Kawasaki disease
Google Alerts: MD Linx

Children’s Hospitals Links

New vision for improved heart and lung care and research in north west London
Google Alerts: Imperial College London

Trusts move to block neighbour's multimillion relocation plan
Google Alerts: Health Service Journal

St. Jude children's hospital receives historic $50M donation, plans major developments
Feedly: Atlanta Journal Constitution

Appointments: Nationwide Children’s Hospital Gets New Chief of Cardiology
Feedly: Columbus CEO
Romania shuts hospital after babies diagnosed with superbug
Feedly: PA Homepage

Labor lied about Lady Cilento Hospital name change: Galaxy poll
Feedly: Brisbane Times

Photo essay: Goodbye to Montreal Children's Hospital
Feedly: Montreal Gazette

Water supply to be shut off at children's hospital
Feedly: BBC News

Opening of Edinburgh children’s hospital delayed again
Feedly: The Times

Huge rise in cancelled operations due to staff shortages at Leicester hospitals
Feedly: Leicester Live

Nine Northern Ireland children had emergency heart op in Republic
Feedly: Belfast Telegraph

Science Links

New research at the University of Manchester identifies two genes linked to a serious congenital heart condition
Google Alerts: British Heart Foundation

MIB1 mutations reduce Notch signaling activation and contribute to congenital heart disease
Google Alerts: Clinical Science

Opinion: Responsible Gene Editing Research Is Necessary Now More Than Ever
Feedly: The Lund Report

Children's Hospital Celebrates European Commission Approval of First-of-Its-Kind Gene Therapy for Blindness
Feedly: PR Newswire

SickKids-led research team finds a potential therapeutic target for life-threatening heart condition
Google Alerts: Shine News (press release)

Health Academics and Politics Links
Health Insurance Set For Major Reforms
Google Alerts: BW Businessworld

Journalists investigate high infant mortality
Google Alerts: Johns Hopkins News-Letter

Report that NIH will cancel fetal tissue research contract fuels controversy
Feedly: Science Magazine

Editorial: Johns Hopkins All Children’s Hospital owes Tampa Bay answers
Feedly: Tampa Bay Times

Cardiomyopathy Links

Genetic study clarifies the causes of the most severe heart muscle diseases of children
Feedly: Science Daily

Controlling BMI and Blood Pressure Might Slow Heart Damage in DMD Patients, Study Suggests
Feedly: Muscular Dystrophy News

Sickle cell anemia treatment safely lowers disease burden in African children
Feedly: Medical Xpress

Adult Congenital Heart Disease

Transgelin Protein May Provide Clues on PAH Progression in Congenital Heart Disease, Study Says
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Google Alerts: SAGE Journals - SAGE Publications

Echocardiographic Screening for Pulmonary Hypertension in Congenital Heart Disease
Google Alerts: JACC
International Links

Romania shuts hospital after babies diagnosed with superbug
Feedly: PA Homepage

28 Mongolian children with heart disease depart for China to receive free surgeries
Google Alerts: Xinhua

Nine Northern Ireland children had emergency heart op in Republic
Google Alerts: Belfast Telegraph

100000 Rural Children of Maharashtra to Be Screened for Congenital Heart Diseases
Google Alerts: Business Wire (press release)

Remote guidance for surgery in Xinjiang
Google Alerts: Global Times

Saudi Arabia, Mauritania ink 3 pacts
Feedly: Saudi Gazette

Chennai: Vice President inaugurates Rainbow Children's Hospital
Feedly: Doordarshan

Human interest Stories

Bhutanese twins Dawa and Nima leave Royal Children’s Hospital
Feedly: Cairns Post

Featured Science

Featured Congenital Heart Surgery Manuscript

Bioprosthetic pulmonary valve endocarditis: Incidence, risk factors, and clinical outcomes.
Congenit Heart Dis. 2018 Sep 17. doi: 10.1111/chd.12639. [Epub ahead of print]
PMID: 30222901
Similar articles
Select item 30221561

Take-Home Points: Dr. Jeremy Herrmann (Indianapolis)
The overall intermediate-to-long term risk for infective endocarditis after surgical pulmonary valve replacement is low.

The risk of infective endocarditis after surgical PVR increases following multiple PVR procedures but is not affected by conduit or valve type.

**Featured Congenital and Pediatric Cardiac EP Manuscript**

**Dual-Site Ventricular Pacing in Patients With Fontan Physiology and Heart Block: Does it Mitigate the Detrimental Effects of Single-Site Ventricular Pacing?**


PMID: 30336874

**Similar articles**

**Take Home Points: Dr. Jeremy Moore (Los Angeles)**

- Prior studies have shown an association between chronic ventricular pacing and systolic dysfunction/AV valve regurgitation in single ventricle patients.
- A retrospective comparison of Fontan patients with and without CRT at a single center was performed.
- There was a non-significant trend toward reduction in the composite endpoint of heart failure/transplantation in the setting of CRT.
- Patients with CRT did not develop worsening systolic ventricular function during follow up as seen in the group with conventional single site pacing.

**Featured Pediatric Cardiology Manuscripts**

**Multimodality Screening of Hepatic Nodules in Patients With Congenital Heart Disease After Fontan Procedure: Role of Ultrasound, ARFI Elastography, CT, and MRI.**


**Take Home Points: Dr. Jared Hershenson (Greater Washington DC)**

- Hepatic nodules are common in young adults who have undergone a Fontan procedure but ultrasound did not detect most of them.
- Liver stiffness at ARFI elastography is possibly a significant predictor of hepatic nodules and may help guide which patients should have future imaging.

**Altered biventricular hemodynamic forces in patients with repaired Tetralogy of Fallot and right ventricular volume overload due to pulmonary regurgitation.**

Sjöberg P MD, Töger J, Hedström E, Arvidsson PM, Heiberg E, Arheden H, Gustafsson R, Nozohoor S, Carlsson M.

PMID: 30265559

**Similar articles**

**Select item 30269070**

**Take Home Points: Dr. Inga Voges (Kiel, Germany)**
4D Flow cardiovascular magnetic resonance imaging is a promising technique which can improve our understanding of hemodynamics in patients with repaired tetralogy of Fallot (ToF) and pulmonary regurgitation.

ToF patients with pulmonary regurgitation have higher hemodynamic forces in the right ventricle in diastole along the pulmonary regurgitant and tricuspid inflow directions compared to healthy controls.

ToF patients with pulmonary regurgitation have higher systolic and diastolic left ventricular hemodynamic forces in the lateral-septal/LVOT and inferior-anterior direction compared to controls suggesting that in these patients left ventricular hemodynamic forces are less aligned with the intraventricular blood flow.

**Congenital Cardiology Today - Latest Issue**

**December 2018; Volume 16; Issue 12 North American Edition**

**ACHA Webinars for Patients and Families**

To view previous webinars and see full schedule click here.

**Research**

**APPROACH-IS II International Study on Patient-Reported Outcomes in Congenital Heart Disease**

To address the new research questions that emerged from the first project, APPROACH-IS II is having the following aims:

1. To further explore differences in patient-reported outcome measures (PROMs) and patient-reported experience measures (PREMs), by enrolling adults with CHD from low, middle, and high income countries and by investigating the role of new potential explanatory variables.

2. To explore the healthcare needs and healthcare consumption of a subgroup of older adults with CHD, with a particular focus on the frailty phenotype.

We are looking for centers from all over the globe that want to join us in this exciting and important project.

More information

**Recruitment Opportunities**
Joint Fellowship in Adult Congenital Heart Disease (ACHD)

We are seeking International applicants for a two-year fellowship in Adult Congenital Heart Disease (ACHD). This exciting joint program is offered by the University Hospital of Münster, Germany and the Royal Brompton Hospital, London, GB. Both centres are major tertiary referral centres with an excellent track record of clinical care and academic output. The successful applicants will be expected to spend one year in Münster and one year in London.

Please send your curriculum vitae and a letter of intent, highlighting your previous ACHD experience and especially your motivation to apply for the post to Gerhard Diller (see below). In addition, a reference contact (ideally direct supervisor/head of department) is required. The start of the program is April 2019, but some flexibility exists to accommodate the needs of candidates. We look forward to your applications.

For further information and to apply please contact Dr Diller
Email: gerhard.diller@ukmuenster.de

CHIP Network Partner Organizations

Adult Congenital Heart Association
Association for European Paediatric and Congenital Cardiology
Asia Pacific Society for ACHD
Asia Pacific Pediatric Cardiac Society
British Congenital Cardiac Association
Canadian Adult Congenital Heart Network
Children's Hospital of Philadelphia
Children's Healthcare of Atlanta
Children's National Medical Center
Congenital Cardiac Anesthesia Society
Congenital Cardiology Today
Congenital Heart Surgeons Society
International Society for Adult Congenital Heart Disease
Iranian Society of Pediatric Cardiology
Japanese Society for ACHD
Johns Hopkins All Children’s Heart Institute
North American ACHD program
Pediatric and Congenital Electrophysiology Society
Pediatric Cardiac Society of India
Paediatric Cardiac Society of South Africa
Pan Arab Congenital Heart Disease Association
PCICS
PICS
The Royal Brompton Hospital
Turkish Association of Pediatric Cardiology and Pediatric Cardiac Surgery
On behalf of the CHiP Network, thank you for reading!

Sincerely,

Gary Webb, MD
CHiP Network