

**13<sup>th</sup> SPR Symposium on Advanced Pediatric Cardiovascular Imaging**  
**The Peter Gilgan Centre for Research and Learning**  
**(The Hospital for Sick Children)**

October 13 – 15, 2017

**Course Directors:** Dr. Lars Grosse-Wortmann, Dr. Mike Seed

**Planning Committee:** Dr. Taylor Chung, Dr. Rajesh Krishnamurthy, Dr. Cynthia Rigsby, Dr. Joshua Robinson,

**Organizational Co-ordination:** Sue Morton, Divya Hari Kannan

**FRIDAY, OCTOBER 13, 2017**

7:00 – 8:00      *Registration and Breakfast*

8:00 – 8:15      Opening Remarks

**Fetal MR**

**Moderator:**

8:15 – 8:35      Frontiers in Fetal Cardiovascular MR

8:35 – 8:55      How Do We Assess Placental Function

8:55 – 9:15      Is Fetal MR Safe?

9:15 – 9:35      How Does Imaging Inform Fetal Cardiovascular Treatment?

9:35 – 9:50      The Future of Fetal Cardiovascular Therapy

9:50 – 10:10      What Are New Techniques in Fetal Cardiac MR?

10:10 – 10:30      Discussion

10:30 – 11:00      *Break*

**Beyond the Heart**

**Moderator:**

11:00 – 11:20      The Brain

11:20 – 11:40      The Lung

11:40 – 12:00      Imaging the Lymphatic System – How, When and Why?

12:00 – 12:20      Discussion

12:20 – 1:30      *Lunch*

**Failing Fontan**

**Moderator:**

1:30 – 1:50      The Liver in Fontan Patients

1:50 – 2:10      The Abdominal Circulation in Patients with Single Ventricle

Physiology

2:10 – 2:30      What Does the Surgeon Want to Know?

2:30 – 2:50      Modeling of the Single Ventricle Circulation

2:50 – 3:10      Lessons from SVR III

3:10 – 3:30      Discussion

3:30 – 4:00      *Break*

**Systemic Diseases That Affect The Heart**

**Moderator:**

4:00 – 4:15      Non-sarcomeric Hypertrophic Cardiomyopathy

4:15 – 4:30      Duchenne Muscular Dystrophy

4:30 – 4:45      Imaging of Iron Deposition

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4:45 – 5:00 Management of Iron Overload  
5:00 – 5:15 Renal Diseases and Diabetes  
5:15 – 5:30 Discussion

5:45 – 6:30 **Wine and Cheese Debate – title TBA** **Moderator**

**Pro:**

**Con:**

6:30 – 7:15 *Reception*

**SATURDAY, OCTOBER 14, 2017**

7:30 - 8:00 *Continental Breakfast*

**Intracardiac Flow** **Moderator:**

8:00 – 8:20 How Do We Quantify Atrioventricular Valve  
Regurgitation?  
8:20 – 8:40 Valve Function After AVSD Repair  
8:40 – 9:00 4D Flow in Tetralogy of Fallot  
9:00 – 9:15 Discussion

**Pulmonary Vein Update** **Moderator:**

9:15 – 9:35 Pathophysiology and Management of Pulmonary Vein  
Stenosis  
9:35 – 9:55 Surveillance for Pulmonary Vein Stenosis  
9:55 – 10:10 Discussion

10:10 – 10:30 *Break*

**Update on Techniques** **Moderator:**

10:30 – 10:50 Setting up a 3D Printing Program  
10:50 – 11:10 3D Printing: Step-by-Step  
11:10 – 11:30 How Do I Use 3D Models?  
11:30 – 11:45 Oxygen-sensitive Imaging of the Myocardium  
11:45 – 12:00 State-of-the-Art Cardiac CT  
12:00 – 12:15 Image Gently Campaign  
12:15 – 12:35 Current State of Contrast and Non-Contrast Enhanced  
MRA  
12:35 – 12:50 Discussion

12:50 – 1:50 Lunch

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**CMR Predictors of Outcomes**

**Moderator:**

1:50 – 2:05	Tetralogy of Fallot
2:05 – 2:20	Hypertrophic Cardiomyopathy
2:20 – 2:35	Single Ventricles
2:35 – 2:50	Update on Registry Initiatives
2:50 – 3:10	Discussion

3:10 – 3:40 Break

**Works in Progress**

**Moderator:**

3:40 – 3:55	Great Ormond Street
3:55 – 4:10	Chicago
4:10 – 4:25	Boston
4:25 – 4:40	Houston
4:40 – 4:55	Leiden
4:55 – 5:10	Ann Arbor
5:10 – 5:25	Discussion

**SUNDAY, OCTOBER 15, 2017**

7:30 - 8:00 *Continental Breakfast*

**Heart Failure**

**Moderator:**

8:00 – 8:20	What the Clinician Wants to Know
8:20 – 8:40	Assessment of the Right Ventricular Function
8:40 – 9:00	Myocardial Mechanics
9:00 – 9:20	Update on Diastology
9:20 – 9:40	RV-LV Interactions
9:40 – 10:00	Non-Invasive Assessment of Pulmonary Hypertension
10:00 – 10:20	Multiparametric Mapping Approach to Anthracycline Toxicity
10:20 – 10:40	Discussion

10:40 – 11:10 *Break*

**Abstracts**

**Moderator:**

11:10 – 11:30	Best Abstract
11:30 – 11:50	Best Case
11:50 – 12:20	Discussion and Wrap-Up