0810-0815  Welcome and Introduction from Chiefs of Radiology and Cardiology

Focus Session 1:  Aortopathy

Moderators:
8.15-8.35  Imaging manifestations of genetically mediated aortic disease: beyond Marfan's syndrome
8.35-8.55  4D flow in Marfan’s and Loeys Dietz syndrome
8.55-9.15  Arterial stiffness and relation to outcomes in aortic disease
9.15-9.35  Is there a better way to measure the aortic root by MRI?
9.35-9.55  Current surgical management of aortic dilation in children
9.55-10.20 Discussion

10.20-10.35  Break

Evolving Concepts:  Ventricular-vascular interaction and myocardial energetics

Moderator:
10.35-10.55  Ventricular vascular Interaction in CHD
10.55-11.15  Assessment of ventricular vascular interaction by MRI
11.15-11.35  RV Myocardial Energetics and Efficiency
11.35-11.55  Serial biomechanical evaluation of single ventricle
11.55-12.10 Discussion

12.10-1.00  Lunch

Focus Session 2:  Myocardial Disease

Moderator:
1.00-1.20  Myocardial Characterization Techniques: Recent Advances
1.20-1.40  CMR in Anthracycline cardiotoxicity
1.40-2.00  Post transplant evaluation by CMR
2.00-2.20  MRI of Pediatric Myocarditis: multi-institutional study results
2.20-2.40 Discussion

2.40-3.00  Break

Looking to the Future  The Role of Big Data in Pediatric CMR

Moderator:
3.00-3.10  The Need for Big Data
3.10-3.30  How do we determine the value of CMR in children?
3.30-3.50  Setting Up a CMR Registry: Lessons from the adult side
Critical questions, end-points, and essential elements of a pediatric CMR registry
3.50-4.05  Myocardial Disease
4.05-4.20  s/p TOF repair
4.20-4.40  Break
4.40-4.55  s/p TGA repair
4.55-5.10  Single Ventricle Palliation
5.10-5.25  Post Fontan
5.25-5.40  CT: Preoperative Planning in Neonates and Infants
5.40-6.00  Discussion

7.00-10.00  Dinner for Faculty vs Vendor Presentations with Dinner

SATURDAY, OCTOBER 15
Opening Session
7.15-8.15  Morphology session with 3D printed models: DORV in your hands

**Clinical Imaging Update 1:** Imaging and Surgery

*Moderator:*
8.20-8.45  Why do surgical approaches differ between centers today?
8.45-9.05  Imaging-surgery correlation and outcomes in Tetralogy of Fallot
9.05-9.25  Borderline LV: Role of MRI in Surgical Decision making
9.25-9.45  Decision making in Fontan Surgery with MRI
9.45-10.00  Discussion

10.00-10.30  Break

**Technical Update**  New Tools: What is on the horizon for pediatric cardiovascular imaging?

*Moderator:*
10.25-10.45  Fast Imaging
10.45-11.05  Pulmonary Vascular Resistance
11.05-11.25  Diastology
11.25-11.45  iCMR
11.45-12.05  Novel contrast agents for MR and CT

12.05-1.05  Lunch

**State of the Art**  Fetal/Perinatal Imaging of CHD

*Moderators:*
1.05-1.25  Brain Protection in CHD and Neurodevelopmental Outcomes
1.25-1.45  Flow Hemodynamics in fetal CHD
### Potential Genetic Injury from MRI: What do we know?

2.05-2.15 Discussion

#### Works in Progress

**Moderator:**
- 2.30-2.50 Cincinatti
- 2.50-3.10 Michigan
- 3.10-3.30 Dallas
- 3.30-3.50 Stanford
- 3.50-4.10 Philadelphia
- 4.10-4.30 Discussion

4.30-4.45 Break

#### Wine & Cheese Debate

4.45-5.45 Debate: Should We Change the Way We Practice Pediatric CMR today?

**Moderator:**
Unsupervised, free-breathing, standardized, 15 minute, point of care CMR

Versus

Comprehensive, supervised, targeted studies with respiratory control

5.45-6.30 Reception

#### SUNDAY, OCTOBER 16

**Hands-on Early Bird Session**

7.00-7.50 Osirix for CV Imaging

#### Clinical Imaging Update 2: Coronary Imaging

**Moderator:**
- 8.00-8.20 Coronary MRA: Recent Advances
- 8.20-8.40 CTA-Surgery Correlation in AAOCA
- 8.40-9.00 MR Stress Perfusion in Coronary Anomalies
- 9.00-9.20 Standardized Approach to AAOCA Management
- 9.20-10.00 Case based discussion of AAOCA

10.20-10.50 Break

#### Young Imagers Session

**Moderators:**
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<td>11.10-11.30</td>
<td>Best Case Submission</td>
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<td>11.30-12.00</td>
<td>Discussion and Wrap-up</td>
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