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

Focus Session 1:  Aortopathy
Moderators:  Andrew Powell, Shaine Morris
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:  Vivek Muthurangu, Michael Taylor
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:  Lars Grosse-Wortmann
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:  Rajesh Krishnamurthy, Shi Joon Yoo
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: Tal Geva
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
Moderator: Taylor Chung
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
Moderators: Michael Seed, Shaine Morris
1.05-1.25 Brain Protection in CHD and Neurodevelopmental Outcomes
1.25-1.45 Flow Hemodynamics in fetal CHD
1.45-2.05 Potential Genetic Injury from MRI: What do we know?
2.05-2.15 Discussion
2.15-2.30 Break

Works in Progress
Moderator: Mark Fogel
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
Moderator: Krishnamurthy/Valsangiocomo
4.45-5.45 Debate: Should We Change the Way We Practice Pediatric CMR today?
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:
Moderator: Cynthia Rigsby
8.00-8.20 Coronary MRA: Recent Advances
8.20-8.40 CTA-Surgery Correlation in AAOSA
8.40-9.00 MR Stress Perfusion in Coronary Anomalies
9.00-9.20 Standardized Approach to AAOSA Management
9.20-10.00 Case based discussion of AAOSA
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.20-10.50</td>
<td>Break</td>
</tr>
<tr>
<td>10.50-11.10</td>
<td>Young Imagers Session</td>
</tr>
<tr>
<td></td>
<td><em>Moderators:</em> Gordon Culham, Lorna Browne</td>
</tr>
<tr>
<td>11.10-11.30</td>
<td>Best Poster Presentation</td>
</tr>
<tr>
<td>11.30-12.00</td>
<td>Best Case Submission</td>
</tr>
<tr>
<td></td>
<td>Discussion and Wrap-up</td>
</tr>
</tbody>
</table>

3D printing surgery session for the afternoon