Course Directors
Aimee Armstrong and Gregor Krings
Stecker Auditorium

Thursday, October 13

1:00-2:45 PM Multimodality 3D Imaging Part I
Moderators: John Cheatham and Sebastian Goreczny

1:00-1:05 PM Welcome Aimee Armstrong and Gregor Krings
1:05-1:10 PM Welcome by NCH Leadership John Barnard
1:10-1:15 PM Audience Response: Who is Using 3D Imaging? Aimee Armstrong and Gregor Krings
1:15-1:30 PM Do We Need 3DRA? Sharon Cheatham
1:30-1:50 PM Utrecht Cookbook: How to do 3DRA Gregor Krings
1:50-2:35 PM Getting the Most of Your 3DRA System: 3 Perspectives on Equipment Capabilities and Limitations Darren Berman, Gregor Krings, Thomas Fagan
2:35-2:45 PM Panel Discussion/Q&A Sharon Cheatham, Gregor Krings, Darren Berman, and Thomas Fagan

2:45-3:00 PM COFFEE BREAK

3:00-5:15 PM Multimodality 3D Imaging Part II
Moderators: Orlando Simonetti and Michael Markl

3:00-3:20 PM 3D Echo in the Cath Lab: The Non-Invasive Imager’s Perspective John Kovalchin
3:20-3:40 PM 3D Echo in the Cath Lab: The Interventionalist’s Perspective Shakeel Qureshi
3:40-4:00 PM Echo Overlay on Fluoroscopy Pei-Ni Jone
4:00-4:15 PM TAPED CASE 1: EchoNav Pei-Ni Jone, Children’s Hospital Colorado
4:15-4:30 PM Panel Discussion/Q&A Pei-Ni Jone, John Kovalchin, and Shakeel Qureshi
4:30-4:45 PM State-of-the-Art CTA: When Should We Use It Instead of MRI? Kan Hor
4:45-4:55 PM From 3D to 4D Rotational Angiography: Technical Feasibility and Clinical Value Gregor Krings
4:55-5:10 PM Abstract Presentation #1: Visualisation in True 3D Volumetric Display Valts Ozolins
5:10-5:15 PM Thursday Wrap Up Aimee Armstrong and Gregor Krings
Friday, October 14

8:00-10:05 AM  **Aortic Session Part I**  
**Moderators: Shakeel Qureshi and John Kovalchin**

8:00-8:05 AM  Welcome  
Gregor Krings

8:05-8:15 AM  Aortic 3DRA: Case Presentation: Stenting Complex Aortic Coarctation: Simulation in a 3D Printed Model  
**Francesca R. Pluchinotta**

8:15-8:30 AM  Stenting the Transverse Arch  
**Darren Berman**

8:30-8:45 AM  Who Needs Hemodynamic Cath When We Have MR 4D Flow?  
**Michael Markl**

8:45-9:00 AM  Who Needs Hemodynamic Cath When We Have MR T2 Relaxometry for O2 Saturation Measurement?  
**Orlando Simonetti**

9:00-9:15 AM  Who Needs MRI When We Have Computational Fluid Dynamics From 3DRA?  
**Aimee Armstrong**

9:15-9:25 AM  Panel Discussion/Q&A  
**Michael Markl, Orlando Simonetti, and Aimee Armstrong**

9:25-9:40 AM  I Like My MR Scanner Adjacent to My Angio Suite Because....  
**Lee Benson**

9:40-9:55 AM  Optimizing Aortic Interventions with 3DRA  
**Sven Dittrich**

9:55-10:05 AM  Panel Discussion/Q&A  
**Lee Benson and Sven Dittrich**

10:05-10:25 AM  COFFEE BREAK

10:25-11:40 AM  **Aortic Session Part II**  
**Moderators: Patrick McConnell and Michael Seckeler**

10:25-11:00 AM  LIVE CASE 1: 3DRA in Aortic Coarctation  
**John Cheatham, Darren Berman and Brian Boe, Nationwide Children’s Hospital**  
Panellists: **Sharon Cheatham and Shakeel Qureshi**

11:00-11:15 AM  How Should We Follow Patients after Aortic Arch Interventions?  
**Martin Bocks**

11:15-11:30 AM  Coarctation: Will There Still Be a Need for Surgery in the Future?  
**Mark Galantowicz**

11:30-11:40 AM  Panel Discussion/Q&A  
**Martin Bocks and Mark Galantowicz**

11:40 AM-1:00 PM  LUNCH AND NETWORKING

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**LUNCH BREAKOUT SESSIONS**  
(CME is not available for the Workshops)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>12:15-1:45 PM</td>
<td>Optional Hands-On 3DRA Workshop: Toshiba (Lower Level Room ED025B)</td>
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Friday, October 14

1:45-3:20 PM  **PPS Session Part I**  
**Moderators: Thomas Fagan and Mark Galantowicz**

1:45-2:15 PM  TAPED CASE 2: PPS Nationwide Children’s Hospital
2:15-2:25 PM  PPS 3DRA: Case Presentation: Pulmonary Sequestration in Scimitar Syndrome Demonstrated by Three-Dimensional Rotational Angiography  **Thomas Fagan**
2:25-2:40 PM  3D Fusion: What Do I Need From the MRI to Perform Fusion?  **Shyam Sathanandam**
2:40-2:55 PM  Vessel Navigator and CT Overlay  **Sebastian Goreczny**
2:55-3:05 PM  Panel Discussion/Q&A  **Shyam Sathanandam and Sebastian Goreczny**
3:05-3:20 PM  Abstract Presentation #2: CT Angiography-Fluoroscopy Image Fusion during Complex Congenital Heart Disease Interventions: Preliminary Experience and Illustrations of 3D-3D and 2D-3D Workflows  **Ponraj Chinnadurai**

3:20-3:40 PM  **COFFEE BREAK**

3:40-5:00 PM  **PPS Session Part II**  
**Moderators: Lee Benson and Francisco Garay**

3:40-3:55 PM  To Tell the Truth: “Will the Real Measurement Please Stand Up?”  **Thomas Fagan**
3:55-4:10 PM  How Do I Reduce Radiation Exposure During 3DRA?  **Shyam Sathanandam**
4:10-4:25 PM  The Newborn with PA/VSD/MAPCAs: What the Surgeon Needs to Prepare For Unifocalization  **Patrick McConnell**
4:25-4:40 PM  3DRA Assessment of Airway Compression in Biventricular CHD  **Thomas Fagan**
4:40-4:55 PM  Panel Discussion/Q&A  **Shyam Sathanandam, Patrick McConnell, and Thomas Fagan**
4:55-5:00 PM  Friday Wrap Up  **Aimee Armstrong**

6:30 PM-9:00 PM  **3DI3 CONFERENCE DINNER**  
Grand Atrium and Zen Terrace, Franklin Park Conservatory  
1777 E. Broad Street, Columbus
Saturday, October 15

8:00-9:55 AM  **PPVI Session Part I**
**Moderators: Martin Bocks and Darren Berman**

8:00-8:05 AM  Welcome  Aimee Armstrong
8:05-8:15 AM  PPVI 3DRA: Case Presentation: Venus P-Valve in Native RVOT with 3DRA Guidance  Francisco Garay
8:15-8:30 AM  Predicting Implanting Characteristics in PPVI  Francesca Pluchinotta
8:30-8:45 AM  Coronary Evaluation for PPVI: 2D vs. 3DRA vs. CTA/MRI  Francisco Garay
8:45-9:00 AM  Starting a 3D Program on the Cheap  Michael Seckeler
9:00-9:10 AM  Panel Discussion/Q&A  Francisco Garay, Francesca Pluchinotta, and Michael Seckeler
9:10-9:55 AM  LIVE CASE 2: PPVI  Mario Carminati, San Donato Milanese, Milan, Italy  Panelists: Sharon Cheatham, Gregor Krings, and Patrick McConnell

9:55-10:10 AM  COFFEE BREAK

10:10-11:20 AM  **PPVI Session Part II**
**Moderators: Aimee Armstrong and Pei-Ni Jone**

10:25-10:40 AM  How Do I Deal With Distal Conduit Stenosis?  Martin Bocks
10:40-10:55 AM  3D Intracardiac Echo: Hype or Underrated?  John Cheatham
10:55-11:05 AM  Panel Discussion/Q&A  Martin Bocks and John Cheatham
11:05-11:20 AM  Abstract Presentation #4: Motion-compensated Cone-beam CT for 3D Imaging of Prosthetic Devices Implanted Using Transcatheter Techniques  Kenneth Fetterly

11:20 AM-12:20 PM  LUNCH AND NETWORKING

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Saturday, October 15

1:00-2:25 PM  **Single Ventricle Session Part I**  
**Moderators: Sharon Cheatham and Sven Dittrich**

1:00-1:15 PM  3DRA Assessment of Cavopulmonary Connections: Tips and Tricks  
Darren Berman

1:15-1:30 PM  3DRA Assessment of Airway Compression in Single Ventricle Heart Disease  
Lee Benson

1:30-1:45 PM  Can We Get Back to the Transcatheter Fontan?  
Mark Galantowicz

1:45-2:00 PM  One Country-One Center: Changes in the Management of Single Ventricle Disease Stages I-III  
Sebastian Goreczny

2:00-2:10 PM  Panel Discussion/Q&A  
Darren Berman, Lee Benson, Mark Galantowicz, and Sebastian Goreczny

2:10-2:25 PM  Abstract Presentation #5: Additional Value of Three-Dimensional Rotational Angiography in the Diagnostic Evaluation and Percutaneous Treatment of Children with Univentricular Hearts  
MMC Molenschot

2:25-2:45 PM  COFFEE BREAK

2:45-4:00 PM  **Single Ventricle Session Part II**  
**Moderators: Kan Hor and Gregor Krings**

2:45-3:00 PM  Urgent Cath Intervention in the Interstage: Is 3DRA Worth the Risk?  
Brian Boe

3:00-3:15 PM  State of the Art Single Ventricle Evaluation Using MRI: No Need for Invasive Diagnostics  
Michael Markl

3:15-3:30 PM  Evaluation of the Failing Fontan  
Shakeel Qureshi

3:30-3:40 PM  Panel Discussion/Q&A  
Brian Boe, Michael Markl, and Shakeel Qureshi

3:40-3:55 PM  The Future of 3D Imaging for Intervention  
John Cheatham

3:55-4:00 PM  Conference Wrap Up  
Aimee Armstrong and Gregor Krings