10TH ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR IMAGING  
October 24 – 26, 2014
Children’s Hospital & Research Center Oakland, Oakland, California, USA
Organized by:
Department of Diagnostic Imaging, Children’s Hospital & Research Center Oakland (CHRCO)
Department of Diagnostic Imaging and Division of Cardiology, Department of Pediatrics
The Hospital for Sick Children (HSC) in Toronto
Sponsored by:
The Society for Pediatric Radiology and Children’s Hospital & Research Center Oakland

Organizers: Ronald Cohen (CHRCO) and Manohar Shroff (HSC) and Andrew Redington (HSC)

Program Directors: Taylor Chung (CHRCO), Lars Grosse-Wortmann (HSC), Gregory Kurio (CHRCO), Mike Seed (HSC)

Course Objectives:
This 2 ½-day course will provide updated information regarding advanced utilization of non-invasive imaging in children with cardiovascular disease with emphasis on MRI. There will be a session on Works-in-Progress where cardiovascular imaging sections from major pediatric institutions will present their most recent research results and plans.

Learning Objectives:
Discuss the latest information on MR assessment of myocardial pathology and function, 4D flow,
Discuss how to use data from cardiovascular MR, and tracheal anomalies and management
Discuss advanced applications of MR in 3D printing of complex hearts, Cardiac CT
Update information regarding cardiovascular MR practices
Exchange cardiovascular MR experience and build networks among attendees and faculties

Continuing Medical Education:
Earn AMA PRA Category 1 Credits™

Registration Fee: US $450;
Residents/Fellows Registration Fee: US $300; (Letter from training program required)
Onsite/Post-deadline Registration Fee: US $500

Registration Deadline: August 30th, 2014

Location: Renaissance Club Sport Hotel, Walnut Creek, California, USA
Invited Faculty:
Francis Chan, Radiologist, Lucille Packard Children’s Hospital, Stanford, USA
Benoit Desjardin, Radiologist, Hospital of University of Pennsylvania, Philadelphia, USA
Mark Fogel, Cardiologist, Children’s Hospital of Philadelphia, Philadelphia, USA
Matthias Friedrich, Cardiologist, Montreal Heart Center, Montreal, Canada
Hyun Woo Goo, Radiologist, Asan Medical Center, Seoul, South Korea
Gerald Greil, Cardiologist, King’s College London, UK
Lars Grosse-Wortmann, Cardiologist, The Hospital for Sick Children, Toronto, Canada
Frank Hanley, Cardiac Surgeon, Lucille Packard Children’s Hospital, Stanford, USA
Willem A. Helbing, Cardiologist, Erasmus University Medical Center, Rotterdam, the Netherlands
Michael Hope, Radiologist, University of California San Francisco, San Francisco, USA
Albert Hsiao, Radiologist, Lucille Packard Children’s Hospital, Stanford, USA
Michael Markl, Physicist, Northwestern University, Chicago, USA
Vivek Muthurangu, Cardiologist, Great Ormond Street Hospital for Sick Children, London, UK
Sonya Babu-Narayan, Cardiologist, Royal Brompton Hospital, London, UK
Beverly Newman, Radiologist, Lucille Packard Children’s Hospital, Stanford, USA
Cindy Rigsby, Radiologist, Lurie Children’s Hospital of Chicago, Chicago, USA
Mike Seed, Cardiologist and Radiologist, The Hospital for Sick Children, Toronto, Canada
Michael Taylor, Cardiologist, Cincinnati Children’s Hospital Medical Center, Cincinnati, USA
Shreyas Vansanawala, Radiologist, Lucille Packard Children’s Hospital, Stanford, USA
John Wood, Cardiologist, LA Children’s Hospital, Los Angeles, USA
Shi-Joon Yoo, Radiologist, The Hospital for Sick Children, Toronto, Canada

Local Faculty:
Taylor Chung, Radiologist
Gregory Kurio, Cardiologist
Olaf Reinhartz, Cardiac Surgeon

Hotel Information:
A block of hotel rooms will be available at the Renaissance ClubSport Hotel, Walnut Creek, California at a reduced rate of US $152 + tax. Please use Group code: chrchra when making room reservations online using this link: http://www.marriott.com/oakbr. Hotel reservations must be booked by September 21, 2014 in order to receive the group rate.

Further Information:
Please contact Ms. Christina Houston (chouston@mail.cho.org)
Re: THE 10TH ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR IMAGING

The Society for Pediatric Radiology and the Children’s Hospital & Research Center Oakland in Oakland, California are pleased to co-sponsor the 10th Advanced Symposium in Pediatric Cardiovascular Imaging. Organized by the Departments of Diagnostic Imaging at the Children’s Hospital & Research Center Oakland and the Hospital for Sick Children in Toronto, the Symposium will be held at the Renaissance ClubSports Hotel in Walnut Creek, California, October 24-26, 2014.

The 10th Advanced Symposium on Pediatric Cardiovascular Imaging is a two and half-day course (Earn AMA PRA Category 1 Credits™) whose aim is to review advanced utilization of imaging of heart diseases in children with an emphasis on MR. The major session topics of this year’s course include: Focus sessions on ‘Assessment of myocardial pathology and function’, ‘4D-flow’, ‘How to use data from CMR’, ‘Tracheal anomalies and management’; Advanced Application sessions on ‘3D printing of complex hearts’, ‘Cardiac CT in 2015’, ‘CMR updates’; and ‘Learn by case’ session. The program will also contain the popular “Works-in-Progress” session where cardiovascular imaging sections from major pediatric institutions from North America, Europe, and Asia, will present their most recent research results and/or plans. The deadline for registration is August 30, 2014.

For further information about the course and registration form, please visit the ‘Events’ page of the SPR website: (www.pedrad.org) or contact Ms. Christina Houston (chouston@mail chois org), the Administration Assistant to Dr. Taylor Chung. We look forward to having a highly educational advanced course.

Sincerely,

Manohar Shroff, MD
Radiologist-in-Chief
Dept. of Diagnostic Imaging
Hospital for Sick Children
University of Toronto
Toronto, Ontario, Canada

Andrew Redington, MD
Head of Division of Cardiology
Dept. of Paediatrics
Hospital for Sick Children
University of Toronto
Toronto, Ontario, Canada

Ronald Cohen, MD
Director
Dept. of Diagnostic Imaging
Children’s Hospital & Research Center Oakland
Oakland, California, USA
10TH ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR IMAGING
October 24-26, 2014

REGISTRATION FORM

Last Name: ____________________________  First Name: ____________________________
Current position: ____________________________
Affiliated Hospital: ____________________________
Mailing address: ____________________________  Postal Code: ____________________________
Tel: ____________________________  Fax: ____________________________  E-mail: ____________________________

Questions about you:

You are a:  □ Pediatric Radiologist  □ Pediatric Cardiologist  □ Adult Cardiologist
□ General Radiologist  □ Other: ____________________________

Proportion of cardiac imaging in your practice:  □ >75%  □ 50-75%  □ 25-50%  □ <25%
Proportion of cardiac MR imaging in your practice:  □ >75%  □ 50-75%  □ 25-50%  □ <25%

Years of experience in cardiac imaging: ____________________________
Years of experience in cardiac MR imaging: ____________________________

MR scanner(s) you use for cardiac imaging:
□ GE  □ Philips  □ Siemens  □ Other: ____________________________   □ None

Number of cardiac MR studies in a month: ____________________________

Most frequent indications of cardiac MR requests in your practice:
1. ____________________________   2. ____________________________

Registration Fee:  US $450; Post-deadline / Onsite Registration Fee:  US $500
For Residents/Fellows, Registration Fee:  US $300; (Letter from training program required)
Registration Deadline:  August 30, 2012
Checks made payable: Children’s Hospital Oakland Diagnostic Imaging Department
Credit Card payment: see attached credit card payment form
Cancellations received on or before registration deadline are fully refundable. After that date, a $100 processing fee will be charged. All requests for refunds must be in writing.

Contact Person for Registration:  Christina Houston
Department of Diagnostic Imaging
Children’s Hospital & Research Center Oakland
747 52nd Street
Oakland, California 94609, USA
Tel: 510-428-2596
Fax: 510-601-3968
E-mail: chouston@mail.cho.org

Inquiry for Program:  Taylor Chung, MD
Department of Diagnostic Imaging
Children’s Hospital & Research Center Oakland
747 52nd Street
Oakland, California 94609, USA
Tel: 510-428-3410
Fax: 510-601-3968
E-mail: tchung@mail.cho.org
THE 10TH ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR IMAGING
October 24-26, 2014

Friday 07:00-08:00 Registration and continental breakfast
08:00-08:10 Welcome addresses and introduction to the 10th Advanced Symposium
08:10-09:50 Focus Session 1: Tracheal anomalies and management
08:15-08:45 Current surgical approach to tracheal-bronchial abnormalities
08:45-09:05 Imaging of the airway in 2015
09:05-09:25 Discussion
09:25-10:05 Advanced Applications 1: 3D printing
09:25-09:45 “Cross-cross” and “topsy-turvy” hearts made easy by 3D printing
09:45-10:05 Discussion
10:05-10:30 Break
10:30-12:25 Focus Session 2: Is 4D-flow ready for Clinical Use in 2015?
10:35-11:05 4-D Flow: from Basic to Advanced
11:05-11:25 4-D Flow and the aorta: present and future
11:25-11:45 Compressed Sensing and 4-D flow - Research or Reality?
11:45-12:05 4-D Flow: Morphology, Function, Flow - all-in-one?
12:05-12:25 Discussion
12:25-13:30 Lunch
13:30-15:15 Advanced Applications 2: CMR Updates
13:55-14:15 MR safety - scanning patients with pacemaker/AICD
14:15-14:35 MR safety - use of Gadofosveset in pediatric patients
14:35-14:50 Towards operator-independent CMR - free-breathing 3D cine
14:50-15:05 Cardiac MR on 3T in 2015
15:05-15:20 Discussion
15:20-15:50 Break
15:50-17:30 Works-in-Progress (Part 1)
15:50-16:10 Special discussion: issues with design and implementation of large cohort studies
16:10-16:25 Asan Medical Center, Seoul, South Korea
16:25-16:40 Children's Hospital of Philadelphia
16:40-16:55 Children's Hospital of Philadelphia
16:55-17:10 Cincinnati Children's Hospital Medical Center
17:10-17:30 Discussion
17:20-18:30 Wine and Cheese Reception

Saturday 06:45-08:25 Continental Breakfast
07:00-08:15 Optional early-bird session: Hands-on session with 3D models
08:25-10:30 Focus Session 3: CMR assessment of Myocardial Pathology and Function 1
08:30-09:00 Back to basics: myocardial architecture and function revisited
09:00-09:20 Recommendation for imaging of myocardial fibrosis for 2015
09:20-09:40 Myocardial fibrosis in Primary Myocardial Disease
09:40-10:00 Myocardial fibrosis in Congenital Heart Disease
10:00-10:20 Anti-fibrotic agents: are they ready for use in 2015?
10:20-10:40 Break
10:40-12:20 Focus Session 3: CMR assessment of Myocardial Pathology and Function 2
10:40-11:00 Using MR for regional wall function assessment - is this clinically relevant?
11:00-11:20 What's new with failed myocardial iron in 2015
11:20-11:50 Managing the failed myocardium: Cardiac Transplantation and Ventricular Assist Devices
11:50-12:10 Managing the failed myocardium: How can imaging help?
12:10-12:30 Discussion
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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Faculty and attendees</th>
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<tbody>
<tr>
<td>12:30-13:30</td>
<td>Lunch</td>
<td>Chan F, Bardo D, Krishnamurthy R, Goo HW, All speakers</td>
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<td>13:30-15:10</td>
<td>Advanced Applications 3: Cardiac CT in 2015</td>
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<td>13:35-13:55</td>
<td>Low dose pediatric cardiac CT in 2015</td>
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<td>13:55-14:15</td>
<td>Cardiac imaging using volume CT scanner</td>
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<td>14:15-14:35</td>
<td>Advanced visualization and post-processing in cardiac CT</td>
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<td>14:35-14:55</td>
<td>Discussion</td>
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<td>15:25-17:00</td>
<td>Work-in-Progress (Part 2)</td>
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<td>15:25-15:40</td>
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<td>Hospital for Sick Children, Toronto</td>
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<td>Lurie Children's Hospital, Chicago</td>
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<td>16:10-16:25</td>
<td>Lucille Packard Children's Hospital, Palo Alto</td>
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<td>16:25-16:40</td>
<td>Texas Children's Hospital, Houston</td>
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<td>16:40-17:00</td>
<td>Discussion</td>
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<td>Sunday</td>
<td>07:00-08:00 Continental Breakfast</td>
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<td>08:00-09:25</td>
<td>Focus Session 4: How should we use data from MR in 2015?</td>
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<td>08:00-08:30</td>
<td>Tetralogy of Fallot</td>
<td>Yoo SJ, Muthurang V, Powell A, Grosse-Wortmann L, All speakers</td>
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<td>08:30-09:00</td>
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<td>09:00-09:30</td>
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<td>09:30-09:50</td>
<td>Discussion</td>
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<td>09:50-10:10</td>
<td>Feedback from audience</td>
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<td>10:10-10:30</td>
<td>Break</td>
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<td>10:30-12:00</td>
<td>Learn by Cases</td>
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<td>12:00</td>
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