



The Society For Pediatric Radiology

1891 Preston White Drive
Reston, VA 20191
Phone: 703-648-0680
Email: spr@acr.org
Web: <http://www.pedrad.org>

The SPR Research and Education Foundation

Re: THE 14TH ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR IMAGING

The Society for Pediatric Radiology and the UCSF Benioff Children's Hospital Oakland (BCHO), in Oakland, California are pleased to co-sponsor *the 14th Advanced Symposium in Pediatric Cardiovascular Imaging*. Organized by the Departments of Diagnostic Imaging and sections of Cardiology at the UCSF Benioff Children's Hospital, The Hospital for Sick Children in Toronto, Lurie Children's Hospital of Chicago, Texas Children's Hospital in Houston, and Nationwide Children's Hospital in Columbus, the Symposium will be held at the Renaissance ClubSports Hotel in Walnut Creek, California, U.S.A., October 12th - 14th, 2018.

The *14th Advanced Symposium on Pediatric Cardiovascular Imaging* is a two and one half-day course (up to 12.25 category 1 CME 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 'Use of MR data for clinical management of patients with repaired TOF, TGA and valvar regurgitation in 2018', 'Imaging and decision-making for complete neonatal repair vs delay repair', Imaging and decision-making for "Single Ventricle including Stem Cell Therapy", "Update on Vasculitis", Technical advance session on 'Compressed Sensing', 'Deep Learning', and 'clinical use of 4D-flow'; 'Cardiac CT in 2018 - more than just morphology'; 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 31, 2018.**

Attention Residents / Fellows / Junior Staff: Case and Research Poster Presentations & Contest

We are encouraging Residents, Fellows and Junior Staff (within 3 years post fellowship training) to share their interesting cases and / or showcase their research! If accepted, the posters will be displayed in the common area outside the conference room. The submitted case and research abstracts will be judged in advance of the symposium and the authors of the highest scoring case and research presentation will be invited to present their work in the 'Best Case and Abstract' Session on Sunday, Oct 14. The winners will receive free registration to the 2019 SPR Symposium on Advanced Cardiovascular Imaging! Please submit your case or research abstract by email to chouston@mail.cho.org by July 31, 2017. Word limit 250, figures and tables do not count toward the word limit.

For further information about the course and registration form, please visit the web site: (www.pedrad.org) or contact Ms. Christina Houston (chouston@mail.cho.org), the Administration Assistant to Dr. Taylor Chung. We look forward to having a highly educational advanced course.

Sincerely,

Ronald Cohen, M.D.
Medical Director
Department of Diagnostic Imaging
UCSF Benioff Children's Hospital Oakland



**The 14TH SPR Advanced Symposium on Pediatric Cardiovascular Imaging
October 12 - 14, 2018
UCSF Benioff Children's Hospital Oakland, Oakland, California, USA**

Organized by:

Department of Diagnostic Imaging and Division of Cardiology, UCSF Benioff Children's Hospital Oakland (BCHO)

Department of Diagnostic Imaging, and Division of Cardiology, Department of Pediatrics, The Hospital for Sick Children (HSC)

Department of Medical Imaging, and Division of Cardiology, Department of Pediatrics, Lurie Children's Hospital of Chicago (Lurie)

Department of Radiology and Division of Cardiology, Texas Children's Hospital (TCH)
Department of Radiology and Division of Cardiology, Nationwide Children's Hospital (NCH)

Sponsored by:

The Society for Pediatric Radiology and UCSF Benioff Children's Hospital Oakland

Local Directors:

Taylor Chung, Gregory Kurio

Organizing Committee:

Taylor Chung, Gregory Kurio (BCHO)
Mike Seed, Lars Grosse-Wortmann (HSC)
Cynthia Rigsby, Joshua Robinson (Lurie)
Rajesh Krishnamurthy (NCH)

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. Cardiovascular imaging sections from major pediatric institutions will present their most recent research results and plans.

Learning Objectives:

Discuss the use of MR data for clinical management of patients with repaired TOF, TGA, and valvar regurgitation

Discuss the use of MR data for clinical management of patients with single ventricles and what imaging is need to support stem cell therapy in the future

Discuss how imaging can help in the decision-making of early vs delayed repair of CHD in neonates

Discuss advanced applications of cardiac CT beyond just morphology

Discuss the current knowledge of applying MR stress test for detection of ischemia in pediatric patients with CHD

Discuss recent application of 4D-flow, compressed sensing and deep learning in MR imaging of patients with CHD

Exchange cardiovascular MR experience and build networks among attendees and faculties.

CME:

This program will be submitted for CME credit. Credit details are pending approval.

Registration Fee: US \$ 595

For Residents/Fellows, registration fees: US \$300; (Letter from training program required)

On-Site / Post deadline Registration Fee: US \$695

Early-bird Registration Ends: August 31st, 2018

Location: Renaissance Club Sport Hotel, Walnut Creek, California, U.S.A

14TH ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR IMAGING
October 12-14, 2018

Invited Faculty:

Sonya Babu-Narayan, Cardiologist, Royal Brompton & Harefield NHS Foundation Trust, London, UK
Dianna Bardo, Radiologist, Phoenix Children's Hospital, Phoenix, USA
Lorna Browne, Radiologist, Children's Hospital of Colorado, Denver, USA
Joseph Cheng, MR Physicist, Stanford University, Stanford, USA
Rohan Dharmakurma, MR Physicist, Cedars-Sinai Medical Center, Los Angeles, USA
Mark Fogel, Cardiologist, Children's Hospital of Philadelphia, Philadelphia, USA
Paul Finn, Radiologist, UCLA Health, Los Angeles, USA
Hyun Woo Goo, Radiologist, Asan Medical Center, Seoul, South Korea
Gerald Greil, Cardiologist, Dallas Children's Hospital, Dallas, USA
Lars Grosse-Wortmann, Cardiologist, The Hospital for Sick Children, Toronto, Canada
Rajesh Krishnamurthy, Radiologist, Nationwide Children's Hospital, Columbus, USA
Michael Lustig, MR Physicist, University of California Berkeley, Berkeley, USA
Davide Marini, Cardiologist, The Hospital for Sick Children, Toronto, Canada
Susan Kim, Rheumatologist, UCSF Benioff Children's Hospital San Francisco, USA
Michael Markl, MR Physicist, Northwestern University, Chicago, USA
Prakash Masand, Radiologist, Texas Children's Hospital, Houston, USA
Anita Moon-Grady, Cardiologist, UCSF Benioff Children's Hospital San Francisco, USA
Vivek Muthurangu, Cardiologist, Great Ormond Street Hospital for Sick Children, London, UK
Beverly Newman, Radiologist, Lucille Packard Children's Hospital, Stanford, USA
Cory Noel, Cardiologist, Texas Children's Hospital, Houston, USA
Shebnam Peyvandi, Cardiologist, UCSF Benioff Children's Hospital San Francisco, USA
Andrew Powell, Cardiologist, Boston Children's Hospital, Boston, USA
Cynthia Rigsby, Radiologist, Lurie Children's Hospital of Chicago, Chicago, USA
Mike Seed, Cardiologist and Radiologist, The Hospital for Sick Children, Toronto, Canada
Timothy Slesnick, Cardiologist, Children's Healthcare of Atlanta, USA
Michael Taylor, Cardiologist, Cincinnati Children's Hospital Medical Center, Cincinnati, USA
Jon Tamir, MR Physicist, University of California Berkeley, Berkeley, USA
Ann Marie Valente, Cardiologist, Children's Hospital Boston, USA
Emanuella Valsangiacomo-Buechel, Cardiologist, University Children's Hospital Zurich, Switzerland
Shreyas Vasanawala, Radiologist, Lucille Packard Children's Hospital, Stanford, USA
John Wood, Cardiologist, Los Angeles Children's Hospital, Los Angeles, USA
Shi-Joon Yoo, Radiologist, The Hospital for Sick Children, Toronto, Canada
Evan Zucker, Radiologist, Lucille Packard Children's Hospital, Stanford, USA

Local Faculty:

Taylor Chung, Radiologist
Mohan Reddy, Cardiac Surgeon
Gregory Kurio, Cardiologist
Shunji Sane, Cardiac Surgeon

HOTEL INFORMATION: A block of hotel rooms will be available at the Renaissance ClubSport Hotel, Walnut Creek, California at reduced rate of US \$176 + tax. Please use this link when making your room reservations:

[Click here to make hotel reservation.](#)

FURTHER INFORMATION:

Please contact Ms. Christina Houston chouston@mail.cho.org.

14TH ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR IMAGING
October 12-14, 2018
REGISTRATION FORM

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

Questions about you:

You are a: Pediatric Radiologist Pediatric Cardiologist Adult Cardiologist
 General Radiologist Others: _____

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 Others _____ None

Number of cardiac MR studies in a month: _____

Most frequent indications of cardiac MR requests in your practice:

1. _____ 2. _____

Registration Fee: US\$595; Post-deadline / on-site Registration Fee: US\$695
For Residents/Fellows, registration fees: US \$300; (Letter from training program required)
Early-bird Registration Deadline: August 31, 2018

- Checks made payable: UCSF Benioff 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.
- **Please return all registration forms to Ms. Christina Houston by mail or e-mail.**

Contact Person for Registration:
Christina Houston
Health Information System (HIS)
UCSF Benioff Children's Hospital Oakland
747 52nd Street
Oakland, California 94609, USA
Tel: 510-428-3885 Ext. 6740
Fax: 510-601-3968
E-mail: chouston@mail.cho.org

Inquiry for Program:
Taylor Chung, MD
Department of Diagnostic Imaging
UCSF Benioff Children's Hospital Oakland
747 52nd Street
Oakland, California 94609, USA
Tel: 510-428-3410
Fax: 510-601-3968
E-mail: tchung@mail.cho.org



CREDIT CARD PAYMENT INFORMATION FORM

DATE OF TRANSACTION: _____/_____/_____

TYPE OF CREDIT CARD (Mark One): MASTERCARD VISA
AMERICAN EXPRESS DISCOVER CARD

CREDIT CARD NUMBER: _____ / _____ / _____ / _____

(Please Enter in Groups of 4 Digits)

NAME ON CARD:

EXPIRATION DATE: _____ / _____ (MM/YY)
SECURITY CODE (on back of card): _____
CARD BILLING ADDRESS:

DAYTIME PHONE #: (_____) _____ - _____

Amount to be charged: \$ _____

Registration Fee: US\$595; Post-deadline / on-site Registration Fee: US\$695

- Residents/Fellows Fee: US \$300 (Letter from training program required)
 - Registration Early-bird Deadline: August 31st, 2018
 - Purpose of Payment: 14th Advanced Symposium
 - Payment be applied to Chori Account 12.7705

Please forward completed form to Christina Houston Chouston@mail.cho.org
processing will be completed by the Lydia Rubio Hospital Cashier.

**14th SPR Advanced Symposium on Pediatric Cardiovascular Imaging
October 12-14, 2018**

Friday, October 12, 2018

7:00-8:00 a.m.	Registration and Continental breakfast
8:00-8:10 a.m.	Welcome addresses and introduction to the 14th Advanced Symposium
8:10-9:25 a.m.	Focus Session 1: Standard Imaging Assessment for Patient Management in 2018 - Yoo SJ
8:15-8:35 a.m.	Repaired Tetralogy of Fallot – Valente, A.M.
8:35-8:55 a.m.	Aortic Regurgitation – Powell, A.
8:55-9:15 a.m.	Atrioventricular Valve Regurgitation – Taylor, M.
9:15-9:35 a.m.	Repaired Transposition of the Great Arteries – Babu-Narayan, S.
9:35-9:55 a.m.	Discussion
9:55-10:25	Break
10:25-12:00 p.m.	Focus Session 2: Controversies in Single Ventricle Palliation: How Can Imaging Data Help – Kurio, G.
10:30-10:50 a.m.	Ventricular Size: How Small is Adequate? – Yoo, S.J.
10:50-11:10 a.m.	Fontan: To Fenestrate or Not? – Grosse-Wortmann, L.
11:10-11:40 a.m.	Stem Cell Therapy in Single Ventricle Repair: How Can Imaging Help? – Sano, S.
11:40-12:00 p.m.	Discussion
12:00-1:30 p.m.	Lunch
1:30-3:55 p.m.	Advanced Applications 1: CMR Updates – Chung, T.
1:35-1:55 p.m.	Compressed Sensing (CS): What Is It? – Tamir, J.
1:55-2:10 p.m.	'Routine' Clinical Use of Compressed Sensing – 'Low Hanging Fruits' – Chung, T.
2:10-2:30 p.m.	Leverage CS – Is Self-Gate and Multi-Dimensional Reconstruction Robust for Clinical Use? – Muthurangu, V.
2:30-2:50 p.m.	Where Are We With 4D Flow in the Clinical Setting in 2018 – Markl, M.
2:50-3:10 p.m.	Deep Learning: What Is It? – Cheng, J.
3:10-3:40 p.m.	Application of Deep Learning in CMR – Vasanaawala, S.
3:40-3:55 p.m.	Discussion
3:55-4:20 p.m.	Break
4:20-5:20 p.m.	Works-in-Progress: Part 1 – Powell, A.
4:20-4:35 p.m.	Special Discussion: Update on Big Data – Krishnamurthy, R.
4:35-4:50 p.m.	Asan Medical Center, Seoul – Goo, H.W.
4:50-5:05 p.m.	Children's Hospital of Philadelphia – Fogel, M.
5:05-5:20 p.m.	Hospital for Sick Children, Toronto – Grosse-Wortmann, L., Seed, M., Yoo, J.S.
5:20-6:20 p.m.	Wine and Cheese Reception
6:30 p.m.	Faculty Dinner – Bus departs at 6:30 p.m.
7:00-9:00 p.m.	Welcome Dinner - Attendees and faculty

**14th SPR Advanced Symposium on Pediatric Cardiovascular Imaging
October 12-14, 2018**

Saturday, October 13, 2018

- 6:45-8:00 a.m. Continental breakfast**
- 8:00-10:05 a.m. Focus Session 3: Timing of Repair in Congenital Heart Disease: Early Neonatal vs. Late – Seed, M.**
- 8:05-8:25 a.m. The Hemodynamics Unrepaired CHD by MRI – Marini, D.
8:25-8:45 a.m. Current Indications for Fetal Cardiac Intervention – Mood-Grady, A.
8:45-9:05 a.m. The Impact of Prenatal CHD Diagnosis on Preoperative Brain Injury – Peyvandi, S.
9:05-9:25 a.m. Risks and Benefits of Early Neonatal Repair in the Preterm Infant with CHD – Reddy, M.
9:25-9:45 a.m. Current Opinions Regarding Timing of Surgery in CHD – Seed, M.
9:45-10:05 a.m. Discussion
- 10:05-10:30 a.m. Break**
- 10:30-12:30 p.m. Advanced Applications 2: Cardiac CT in 2018 – Rigsby, C.**
- 10:35-10:55 a.m. The Rise of Clinical Cardiac CT in 2018: Are We Worried About Dose? – Browne
10:55-11:15 a.m. 320-slice Volume vs. Dual Source: Who Is the ‘Winner’? – Masand, P.
11:15-11:35 a.m. Cardiac CT: No Longer Just Morphology – Goo, H.W.
11:35-11:55 a.m. Coronary CT and FFR in Pediatric Patients – Bardo, D.
11:55-12:15 p.m. Discussion
- 12:15-1:30 p.m. Lunch**
- 1:30-2:30 p.m. Advanced Applications 3: Ferumoxytol in 2018 – Vasanawala, S.**
- 1:35-1:55 p.m. Will It Ever Become the ‘Mainstream’ Contrast for CHD Imaging? – Finn, P.
1:55-2:15 p.m. Clinical Use of Ferumoxytol in 2018 – Rigsby, C.
2:15-2:30 p.m. Discussion
- 2:30-3:45 p.m. Focus Session 3: Update on Vasculitis – Chung, T.**
- 2:30-2:50 p.m. Current Understanding of Vasculitis – Kim, S.
2:50-3:10 p.m. Imaging Vasculitis: CT, MR, PET? – Zucker, F.
3:10-3:30 p.m. Clinical Management – How Imaging Helps in 2018 – Kim, S.
3:30-3:45 p.m. Discussion
- 3:45-4:15 p.m. Break**
- 4:15-5:30 p.m. Works-in-Progress: Part II – Fogel, M.**
- 4:15-4:30 p.m. Children’s Healthcare of Atlanta – Slesnick, T.
4:30-4:45 p.m. Dallas Children’s Hospital – Griel, G.
4:45-5:00 p.m. Los Angeles Children’s Hospital – Wood, J.
5:00-5:15 p.m. Lucille Packard Children’s Hospital – Vasanawala, D.
5:15-5:30 p.m. UC Berkeley Department of Electrical Engineering and Computer Science – Lustig, M.

**14th SPR Advanced Symposium on Pediatric Cardiovascular Imaging
October 12-14, 2018**

Sunday, October 14, 2018

7:00-8:00 a.m.	Continental breakfast
8:00-9:45 a.m.	Focus Session 4: Pediatric Ischemia – Noel, C.
8:05-8:25 a.m.	Clinical Impact of Pediatric Stress MR? Why Do It? – Valsangiacomo-Buechel, E.
8:25-8:45 a.m.	Pediatric Experience with Regadenoson vs. Dobutamine – Noel, C.
8:45-9:05 a.m.	Beyond Focal Perfusion Defects: Can We Assess Microvascular Perfusion in Children? – Robinson, J.
9:05-9:25 a.m.	Stress Cardiac MR with Carbon Dioxide: Ready for Clinical Use in 2018? – Dharmakumar, R.
9:25-9:45 a.m.	Discussion
9:45-10:00 a.m.	Feedback from Audience – Chung, T., Kurio, G.
10:00-10:30 a.m.	Break
10:30-12:30 p.m.	Learn by Cases – Newman, B.
10:35-11:00 a.m.	Best Abstract/Best Case
11:00-12:30 p.m.	Cases from LPCH and Audience
12:00 p.m.	Adjourn