Disruptive Therapies in Congenital Heart Disease: The Right Ventricular Outflow Tract

SATURDAY AND SUNDAY, OCT. 28 & 29, 2017
7:30 A.M. – 5:00 P.M.

Designed for pediatric and adult cardiologists, cardiac surgeons, nurses, nurse practitioners and physician assistants who care for this diverse patient population from birth through adulthood.

CONFERENCE LOCATION
Cedars-Sinai Medical Center
Advance Health Sciences Pavilion
127 S. San Vicente Blvd.
Room: PEC – 6 and 7
Los Angeles, CA 90048

For the latest course information and to register, visit: cedars-sinai.edu/heartdiseasecme
ACTIVITY INFORMATION

COURSE DESCRIPTION AND STATEMENT OF NEED
Congenital heart disease patients with dysfunctional right ventricular outflow tract (RVOT) disease represent a diverse and dynamic population requiring lifelong care. Recently there has been an explosion of thought and technology related to the treatment of these complex patients.

This conference will concentrate on a multidisciplinary team approach focused on the subtleties of diagnosis, management and treatment options for patients with dysfunctional RVOT. Our goal will be to provide the latest information from the diagnostic, surgical, catheter-based and engineering perspectives to aid physicians and other healthcare providers in the care of these complex patients.

A group of widely recognized international experts in the field will provide unique insights into the latest therapeutic strategies available for this patient population with a view toward what the future holds, both in the near, and long-term.

EDUCATIONAL OBJECTIVES
• Gain a deeper understanding of the pathophysiology and anatomy of the dysfunctional RVOT
• Discuss the latest advances in RVOT diagnostic modalities and how each pertains to the timing and type of treatment
• Assess current treatment options available for the dysfunctional RVOT and how best to individualize therapy to meet the needs of a specific patient
• Discuss and explore “bench” and near-future innovative approaches to RVOT treatment

ACCREDITATION STATEMENT
Cedars-Sinai Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT
Cedars-Sinai Medical Center designates this live activity for a maximum of 11.25 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

NURSES
The California State Board of Registered Nursing accepts courses approved by the ACCME for Category 1 credit as meeting the continuing education requirements for license renewal.

TRAINING / CREDIT DISCLAIMER STATEMENT
While offering CME credit, this course is not intended to provide extensive training for certification in the field. Approval of Category 1 credit by Cedars-Sinai Medical Center should not be construed as endorsement of any product.

POLICY ON DISCLOSURE
It is the policy of Cedars-Sinai Medical Center to ensure balance, independence, objectivity and scientific rigor in all its educational activities. Cedars-Sinai Medical Center assesses conflict of interest with its faculty, planners and managers of CME activities. Conflicts of interest that are identified are resolved by reviewing that presenter’s content for fair balance and absence of bias, scientific objectivity of studies utilized in this activity, and patient care recommendations.

While Cedars-Sinai Medical Center endeavors to review faculty content, it remains the obligation of each physician or other healthcare practitioner to determine the applicability or relevance of the information provided from this course in his or her own practice.

ACKNOWLEDGMENT OF COMMERCIAL SUPPORT
Commercial support for this educational activity is pending and will be acknowledged at the conference.
SATURDAY, OCT. 28
7:30 A.M.  Registration and breakfast
8:00  Welcome and opening remarks  

RVOT...THE BASICS
8:10  Anatomy of the RVOT and right heart that matters  
Tal Geva, MD
8:30  Surgical Approach for ToF: Historical highlights and evolution  
Frank Hanley, MD
8:50  Pathophysiologic and clinical correlates: RVOT regurgitation and obstruction  
Ruchira Garg, MD
9:10  Non-ToF RVOT disease: What’s the difference?  
B. Kelly Han, MD
9:30  Incidence and population demographics of RVOT disease  
George Lui, MD
9:50  Cardiac catheterization: Is there still a role for assessing the RVOT with cardiac catheterization?  
Frank Ing, MD
10:10  Break

ASSESSMENT OF THE RVOT
10:25  Echocardiographic assessment of the RVOT: What are the essential elements?  
Ruchira Garg, MD
10:45  Cardiac MRI: Beyond volumes and regurgitant fraction.  
Tal Geva, MD
11:05  Cardiac CT: What does it add to the assessment of the RVOT?  
B. Kelly Han, MD
11:25  Exercise, EKG and all the rest of those clinical parameters: How do they fit in?  
George Lui, MD
11:40  Who needs a pulmonary valve? Current (and future) Indications for PVR  
Tal Geva, MD
12:05 p.m.  Discussion
12:15  Lunch

CURRENT TREATMENT OPTIONS FOR RVOT DISEASE
1:05  Newer surgical approaches to primary repair of ToF  
Frank Hanley, MD
1:25  What’s the best surgical approach for dysfunctional RVOT after ToF repair?  
Jennifer Hirsch-Romano, MD
1:45  Melody valve in the “Native” RVOT: Results, limitations, future  
Daniel Levi, MD
2:05  Sapien valve in the “Native” RVOT: Results, limitations, future  
Evan Zahn, MD
2:25  My problem with current transcatheter pulmonary valve therapy  
Frank Hanley, MD
2:45  Break

NEWER TREATMENT OPTIONS FOR RVOT DISEASE
3:05  Designing a transcatheter valve for the “Native” RVOT: An engineering nightmare  
Dustin Armer  
(CME Credit will not be provided for this talk)
3:20  Transcatheter treatment of the patched RVOT with the newer generation of valves: Update on the harmony trial  
Matthew Gillespie, MD
3:35  Transcatheter treatment of the patched RVOT with the newer generation of valves: Update on the alterra trial  
Evan Zahn, MD
3:50  Newer innovative approaches to treat the patched RVOT: Hybrid and beyond  
Frank Ing, MD

DEBATE – Surgical Pulmonary Valve Replacement Is Time Tested and Superior to Transcatheter Valve Placement in this Population...Stop Wasting Our Time!
4:05  Protagonist  
Jennifer Hirsch-Romano, MD
4:25  Antagonist  
Daniel Levi, MD
4:45  Rebuttals and discussion
4:55  Closing remarks
5:00 P.M.  Adjournment
**SUNDAY, OCT. 29**

7:30 A.M.  Breakfast

**COMPLEX, COMPLICATED AND GENERALLY DIFFICULT CASES OF RVOT REPAIR...WHAT I LEARNED**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Surgical case 1</td>
<td>Jennifer Hirsch–Romano, MD</td>
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<tr>
<td>8:20</td>
<td>Interventional case 1</td>
<td>Evan Zahn, MD</td>
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<tr>
<td>8:40</td>
<td>Surgical case 2</td>
<td>Frank Hanley, MD</td>
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<tr>
<td>9:00</td>
<td>Interventional case 2</td>
<td>Matthew Gillespie, MD</td>
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<td>9:20</td>
<td>Open case discussion</td>
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<td>9:45</td>
<td>Break</td>
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**THE FUTURE OF RVOT THERAPY: WHERE DO WE GO NEXT?**

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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Where I see surgical therapy for the RVOT going next</td>
<td>Jennifer Hirsch–Romano, MD</td>
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<tr>
<td>10:20</td>
<td>Where I see catheter-based therapy for The RVOT going next</td>
<td>Matthew Gillespie, MD</td>
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<td>10:40</td>
<td>Will tissue engineering of pulmonary valves change the world?</td>
<td>Daniel Levi, MD</td>
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<td>11:00</td>
<td>Questions and discussion</td>
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**OPEN DISCUSSION LED BY PANELISTS**

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<tr>
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<tr>
<td>11:30</td>
<td>What are the 3 most important questions that still need to be answered?</td>
<td>All Faculty</td>
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<td>Where does the technology need to go? How do we collaborate better?</td>
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<td>12:10</td>
<td>Closing Remarks</td>
<td>Evan Zahn, MD</td>
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<td>12:15 P.M.</td>
<td>Lunch and adjourn</td>
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**HOTEL INFORMATION**

**HOTEL LOCATION**
Sofitel Los Angeles at Beverly Hills  
8555 Beverly Blvd, Los Angeles, CA 90048

A very limited number of rooms have been reserved for meeting attendees at a special group rate of $269.00. Reservations are taken on a first-come, first-served basis. Please call the Sofitel Hotel, 8555 Beverly Boulevard at (310) 278-5444 to make your hotel reservation. Identify yourself as attending the Cedars-Sinai meeting to obtain this special rate. The Sofitel is walking distances from the meeting location. Be sure to reserve early, as our room block sells out quickly.

**We encourage participation by all individuals. If you require any special needs, please let us know so we can assist you.**

For further information, please call the Office of Continuing Medical Education at (310) 423-5548 or email Cedars-Sinai Office of CME - cme@cshs.org
REGISTRATION

DISRUPTIVE THERAPIES IN CONGENITAL HEART DISEASE:
THE RIGHT VENTRICULAR OUTFLOW TRACT

OCT. 28 & 29, 2017

REGISTRATION METHODS

ONLINE registration at: cedars-sinai.edu/heartdiseasecme

MAIL registration form and payment (checks payable to Cedars-Sinai Medical Center) to:
Cedars-Sinai Medical Center
Office of Continuing Medical Education, Attn: Registration
8797 Beverly Blvd., Suite 250, Los Angeles, CA 90048

FAX completed registration form with credit card information to: 310-423-8596

REGISTRATION FEES

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The registration fee includes CME credit, course materials and meal functions.

LAST NAME ___________________________________________ FIRST NAME ____________________________

DEGREE ___________________________ SPECIALTY ____________________________

ADDRESS __________________________________________

CITY ___________________________ STATE ________ ZIP ____________________________

PHONE ___________________________ FAX ____________________________

EMAIL* ____________________________________________

*An email address is required to register for the conference.

CHECK ENCLOSED PAYABLE TO CSMC FOR $ ____________________________

PLEASE CHARGE MY CREDIT CARD □ VISA □ MASTERCARD □ AMEX FOR $ ____________________________

CC NUMBER __________________________________________

CCV ____________ EXP DATE ________/ ________

AUTHORIZED SIGNATURE __________________________________________

HOW DID YOU LEARN ABOUT THIS CME ACTIVITY?

□ Brochure/Other Printed Materials □ Cedars-Sinai Website □ Email

□ Internet Search □ Colleague □ Past Participant

□ Internal Cedars-Sinai Communication □ Other __________________________________________

CONFIRMATION

To receive a registration confirmation, please provide your e-mail address. If you do not receive a confirmation, please call 310-423-5548 to confirm your registration.

REFUND POLICY

All cancellations must be submitted in writing, and refunds will be subject to a $50 administrative charge. No refunds will be given after October 13, 2017.

CANCELLATION POLICY

Cedars-Sinai reserves the right to cancel or reschedule programs due to circumstances beyond its control, or to close registration when programs are oversubscribed. Registrants are advised against purchasing nonrefundable airline tickets until they receive registration confirmation. Cedars-Sinai is not responsible for penalties incurred as a result of cancelled transportation costs.
**COURSE DIRECTOR**

Evan M. Zahn, MD  
Director, Guerin Family Congenital Heart Program  
Cedars-Sinai Heart Institute  
Department of Pediatrics

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**PLANNING COMMITTEE MEMBER**

Ruchira Garg, MD  
Director, Congenital Noninvasive Cardiology  
Cedars-Sinai Heart Institute  
Department of Pediatrics

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**GUEST FACULTY**

Dustin Armer  
Manager, R&D – Transcatheter Heart Valves  
Edwards Lifesciences  
Irvine, CA

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Tal Geva, MD  
Professor of Pediatrics  
Harvard Medical School  
Boston Children’s Hospital  
Boston, MA

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Matthew Gillespie, MD  
Associate Professor, Pediatrics  
Perelman School of Medicine  
Children’s Hospital of Philadelphia  
Philadelphia, PA

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Frank F. Hanley, MD  
Professor of Surgery  
Lawrence Crowley, MD Endowed Professorship in Child Health  
Stanford University School of Medicine  
Packard Children’s Hospital  
Palo Alto, CA

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B. Kelly Han, MD  
Pediatric Cardiologist  
Children’s Heart Clinic  
Minneapolis, MN

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Jennifer Hirsch-Romano, MD  
Associate Professor  
Pediatric Cardiovascular Surgery  
University of Michigan Medical School  
Surgical Director, Pediatric Cardiothoracic Intensive Care  
C.S. Mott Children’s Hospital  
Ann Arbor, MI
Complimentary self-parking is available in visitor parking lots P1 or P2 (off of George Burns Rd. and Beverly Blvd.) or P4 (off of 3rd St. and Sherbourne Dr.)

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