

**UCSF'S 13TH INTERNATIONAL CONFERENCE
NEONATAL & CHILDHOOD PULMONARY VASCULAR DISEASE
Hilton San Francisco - Financial District**

**PULMONARY VEIN STENOSIS NETWORK SYMPOSIUM
Thursday, March 5, 2020
Mason I & II (Second Floor)**

THURSDAY, MARCH 5, 2020

7:00 am *Registration and Continental Breakfast*

7:45 **Welcome and PVS Network Overview**
Dr. Rachel Vanderlaan

SESSION 1: PULMONARY VEIN STENOSIS IN THE EX-PREMATURE INFANT

MODERATORS: Drs. Del Cerro Marin and Roberta Keller

8:00 **Pulmonary Vascular Development**
Dr. David Frank

8:30 **PVS in BPD: Pathophysiology and Outcomes**
Dr. Carl Backes

9:00 **Diagnosis, Imaging, and Treatment Challenges of PVS in the Ex-Premature Infant**
Dr. Roberta Keller

9:30 **Group Discussion**

10:00 *Break*

SESSION 2: Surveillance and Medical Treatment of PVS

MODERATORS: Drs. Ron Day and Dunbar Ivy

10:15 **Echocardiographic Consideration in PVS**
Dr. Andreea Dragulescu

10:45 **Use of MRI/CT/Lung Perfusion for surveillance and diagnosis of PVS**
Dr. Lars Grosse Wortmann

11:15 **Medical Treatment for PVS: experimental therapies and PHTN medications**
Dr. Delphine Yung

11:45 **Group Discussion**

12:30 pm *Lunch on Your Own*

SESSION 3: Catheter Based Interventions

MODERATORS: Drs. **Ryan Callahan, Jonathan Rome,** and Phillip Moore

1:45 **Catheter interventions for PVS: Overview and Challenges**
Dr. Russel Hirsch

2:15 **Center-Specific Approach - Texas**
Dr. Athar Qureshi

2:45 **Center-Specific Approach - Emory**
Dr. Christopher Petit

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THURSDAY, MARCH 5, 2020 (continued)

3:15 **CASE PRESENTATIONS**

4:00 *Break*

SESSION 4: SURGICAL APPROACHES

MODERATOR: Dr. Rachel Vanderlaan

4:15 **Surgical Considerations: Conventional and Sutureless Repair**
Dr. Chris Calderone

4:45 **Center-Specific Approach – Boston**
Dr. Chris Baird

5:15 **MCS/Lung Transplant**
Dr. Charles Huddleston

5:45 **Group Discussion**

6:15 pm *Adjourn*

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**GENERAL SESSION - AGENDA
Friday, March 6 & Saturday, March 7, 2020
Grand Ballroom (Third Floor)**

FRIDAY, MARCH 6, 2020

7:00 am *Registration and Continental Breakfast*

7:45 **Welcome and Opening Remarks**
Dr. Jeff Fineman

SESSION 1: NEW MECHANISMS AND POTENTIAL THERAPIES FOR NEONATAL PULMONARY DISEASE

Moderators: Drs. Roberta Keller and Bernard Thébaud

8:00 **Alveogenesis and Endothelial Progenitor Cells**
Dr. Vladimir Kalinichenko

8:30 **Experimental Models of CDH: Insights from Human Genetics**
Dr. Xin Sun

9:00 **Ventricular Function in Neonatal Pulmonary Hypertension: Influence on Outcomes**
Dr. Gabriel Altit

9:30 **Pulmonary Hypertension in the Preterm: Role of Inhaled NO**
Dr. Satyan Lakshminirusima

10:00 am *Break*

SESSION 2: Therapeutic Updates: Part I

Moderators: Drs. Eric Austin and John Kinsella

10:20 **Update on Current and Future Endothelial Based Therapies**
Dr. Marilyn Levy

10:40 **Update on Metabolic Therapeutic Targets**
Dr. Stephan Chan

11:00 **Micro RNAs: Potential Therapeutic Targets**
Dr. Usha Raj

11:20 **PH Treatment in SV Physiology**
Dr. Russel Hirsch

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Grand Ballroom (Third Floor)**

SESSION 3: Perspective: Ode to the Right Ventricle

- 11:45 Dr. Stephen Archer
- 12:15 **Boxed Lunch: Case Presentations**
Moderators: Drs. Usha Krishnan and Robin Steinhorn

SESSION 4: Therapeutic Updates: Part II
Moderators: Drs. Dunbar Ivy and Peter Oishi

- 1:15 **Update on SMC/Inflammatory Based PH Therapies**
Dr. Kurt Stenmark
- 1:35 **Right Ventricular Therapeutic Targets**
Dr. Andrew Redington
- 2:00 **Cell Based Therapies**
Dr. Duncan Stewart
- 2:20 **Inflammation in the Setting of BMPR2 Insufficiency**
Drs. Mark Nicolls and Amy Tian
- 2:40 *Break*

SESSION 5: LYMPHATICS: The Forgotten Circulation
Moderators: Drs. Rolf Berger and Shahin Moledina

- 3:00 **Lymphatic Abnormalities in CHD Resulting in Pulmonary Overcirculation**
Dr. Sanjeev Datar
- 3:20 **Lymphatic Abnormalities in Single Ventricle Physiology**
Dr. Vibeke E. Hjortdal
- 3:40 **Lymphatic Interventions in CHD**
Dr. Yoav Dori

SESSION 6: ROUND TABLE DISCUSSION: PH IN LEFT HEART DISEASE
Moderators: Dr. Maria Del Cerro and Hythem Nawaytou

- 4:00 PH in Left Heart Disease
- 5:30 pm *Adjourn*

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SATURDAY, MARCH 7th, 2020

7:00 am *Continental Breakfast*

SESSION 7: CONGENITAL HEART DISEASE

Moderators: Drs. Ted Kirkpatrick and Satish Rajagopal

8:00 **Hemodynamic Forces: Translating Natural History into Mechanisms of Disease**

Dr. Jeff Fineman

8:20 **Patient Selection and Markers of Reversibility**

Dr. Rolf Berger

8:40 **Eisenmengers: An Update**

Dr. Alex Opotowsky

9:00 **Treat and Repair**

Dr. Hythem Nawaytou

9:20 **Surgical Reconstruction of the Pulmonary Circulation**

Dr. Mohan Reddy

9:40 *Break*

SESSION 8: SCIENTIFIC SESSION INCLUDING ABSTRACT POSTER SYMPOSIUM

(Abstracts will be published in *Pulmonary Circulation*)

(10:00 am – 1:15 pm General Session Room)

Moderators: Drs. Steve Abman and Stephen Archer

10:00 **Poster Viewing**

10:45 **The Year in Review: Basic Science**

Dr. Cristina Alvira

11:15 **The Year in Review: Clinical Science**

Dr. Maurice Beghetti

11:45 **Platform Sessions: Brief Poster Oral Discussions**

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SATURDAY, MARCH 7th, 2020

1:00 pm *Lunch on Your Own*

2:30 **PRO/CON Debate: Potts vs. Transplant as a First Choice Palliation**
Drs. George Mallory and Mark Grady

SESSION 9: Advances in Imaging

MODERATORS: Drs. Shahin Moledina and Elena Amin

3:00 **Molecular Imaging of the Pulmonary Endothelium**
Dr. Jocelyn Dupuis

3:20 **Synchrotron Imaging of the Pulmonary Microvasculature**
Dr. Karin Tran Lundmark

3:40 **Cardiac MRI to Assess Physiology of Pulmonary Hypertension**
Dr. Vivek Muthurangu

4:00 *Break*

4:15 **Case Presentations**
Moderators: Drs. Delphine Yung and Mary Mullen

5:15 pm *Closing Remarks and Adjourn*