



# PVRI 2025 Rio Annual Congress

29 January - 1 February 2025

## Embracing Heterogeneity

Windsor Convention & Expo Centre, R. Martinho de Mesquita, 129 - Barra da Tijuca Rio de Janeiro - RJ, 20031-204

## SESSION 1: Establishing the framework for the classification & diagnosis of PH worldwide

*Moderators: Katarina Zeder, Lindsay Forbes, Sonja Bartolome*

- 08:00-08:05 PVRI President's welcome  
Anna Hemnes
- 08:05-08:20 PH care in Brazil  
Rogerio Souza
- 08:20-08:35 Classification & diagnosis of PH: Updates from the 7th WSPH  
Gabor Kovacs
- 08:35-08:50 Omics-based & data-driven approaches to early disease diagnosis  
Catherine Simpson
- 08:50-08:57 **Basic/translational abstract**  
Speaker TBC
- 08:57-09:12 CIPHER & CIPHER-MRI studies for early diagnosis of PH  
Ioana Preston
- 09:12-09:27 Advanced medical imaging & AI in PH diagnosis & classification  
Andy Swift

**09:27-09:57 Refreshment break**

*Moderators: Tatiana Kudryashova, Gustavo Heresi, Tim Lahm*

- 09:57-10:12 Cardiopulmonary exercise testing in the diagnosis & phenotyping of PH patients  
Khodr Tello
- 10:12-10:27 Classification & diagnosis of pediatric PH: Updates from the 7th WSPH  
Dunbar Ivy
- 10:27-10:35 **Basic/translational abstract**  
Speaker TBC
- 10:35-10:50 CTEPH & CTED approach to early diagnosis & treatment  
Mark Toshner
- 10:50-11:05 How pre-clinical models can be used to improve clinical phenotyping & early diagnosis  
Vineet Agrawal

**11:05-13:00 Lunch break, Barra Restaurant**

**11:05-13:00 Career Catalyst Luncheon**

## SESSION 2: Risk stratification & treatment in the new era of PH therapeutics

*Moderators: Pilar Escribano Subias, Sue Gue, Sandeep Sahay*

- 13:00-13:15 Developments in risk stratification scores in PH  
Valentina Mercurio (TBC)
- 13:15-13:30 RV phenotyping in PH risk stratification & treatment  
Tim Lahm
- 13:30-13:37 **Basic/translational abstract**  
Speaker TBC
- 13:37-13:52 The impact of novel therapeutics on the treatment algorithm of PH  
Sandeep Sahay
- 13:52-14:07 Surgical Interventions, mechanical support, & transplant in end-stage PH  
Nayeli Zayas

**14:07-14:37 Refreshment break**

*Moderators: Corey Ventetuolo, Athiththan Yogeswaran, Horst Olschewski*

- 14:37-14:52 Approach to the treatment of Group 1 PH patients with co-morbidities  
Anna Hemnes
- 14:52-15:07 Risk stratification & treatment of pediatric PH  
Rolf Berger
- 15:07-15:15 **Basic/translational abstract**  
Speaker TBC
- 15:15-15:30 Medical & surgical management of CTED & CTEPH  
Hiromi Matsubara
- 15:30-16:00 Panel discussion: Realities & challenges of applying PH guidelines for diagnosis & treatment in LMIC  
*Facilitators: Vinicio de Jesus Perez, Werner Seeger, Ana Mocumbi, Gerald Maarman, Mauricio Orozco Levi*

**16:00-18:00 Poster presentations**

**18:00-19:30 Drinks Reception**

**Thursday  
30 January**

Windsor Oceanico,  
Asia, 3rd Floor



## SESSION 3: Vascular heterogeneity in chronic lung disease

Moderators: *Grazyna Kwapiszewska, Shelsey Johnson, Susan Majka (TBC)*

- 08:00-08:05 Introduction  
Grazyna Kwapiszewska
- 08:05-08:20 Clinical aspects of PH heterogeneity in chronic lung disease: Same as PAH or different?  
Corey Ventetuolo (TBC)
- 08:20-08:35 Translational investigations of PH in fibrotic lung disease models  
Andrew Bryant
- 08:35-08:50 Translational investigations of PH in COPD disease models  
Natascha Sommer
- 08:50-08:57 Abstract  
Speaker TBC
- 08:57-09:05 Abstract  
Speaker TBC
- 09:05-09:20 Panel discussion: Comparison of vascular changes in CLD & PAH

09:20-09:50 Refreshment break

Moderators: *David Kiely, Mona Lichtblau*

- 09:50-09:55 Introduction  
David Kiely
- 09:55-10:10 Vasculature in CLD: Imaging insights  
Nick Rahaghi
- 10:10-10:25 Pulmonary vascular heterogeneity: Insights from contemporary pathological approaches  
Rubin Tudor
- 10:25-10:40 Vascular changes in pediatric chronic lung disease  
Steven Abman
- 10:40-10:47 Abstract  
Speaker TBC
- 10:47-10:55 Abstract  
Speaker TBC
- 10:55-11:10 Panel discussion: Should we target vascular changes in chronic lung disease?

11:10-13:00 Lunch break, Barra Restaurant

11:10-13:00 **Women in PH Luncheon, sponsored by UTC**  
Host: *Anna Hemnes*  
Guest speakers: *Jill Maron, Karin Tran-Lundmark, Ana Olga Mocumbi*



## SESSION 4: Heterogeneity in PH associated with heart disease

Moderators: *Nidhy Varghese, Baktybek Kojonazarov, Dora Haag (TBC)*

- 13:00-13:05 Introduction  
Nidhy Varghese
- 13:05-13:20 How do HFrEF & HFpEF affect the pulmonary vasculature & how can we model it?  
Charly Lai
- 13:20-13:35 Congenital heart disease & the pulmonary vasculature  
Michael Gatzoulis (TBC)
- 13:35-13:42 Abstract  
Speaker TBC
- 13:42-13:50 Abstract  
Speaker TBC
- 13:50-14:05 Animal models of heart disease PH  
Wolfgang Kübler
- 14:05-14:20 Effect of pre and post-tricuspid shunts on the pulmonary vasculature  
Rachel Hopper

14:20-14:50 Refreshment break

Moderators: *Harm Jan Bogaard, Evan Brittain, Philipp Douschan*

- 14:50-14:55 Introduction  
Harm Jan Bogaard
- 14:55-15:10 How can we study the right ventricle to develop novel therapies?  
Edda Spiekerkoetter
- 15:10-15:25 Advances in imaging RV function in humans & animal models with PH  
Rebecca Vanderpool
- 15:25-15:32 Abstract  
Speaker TBC
- 15:32-15:40 Abstract  
Speaker TBC
- 15:40-15:55 Cellular heterogeneity in RV dysfunction  
Soni Savai-Pullamsetti
- 15:55-16:10 Managing RV dysfunction in resource-limited settings  
Prashant Bobhate
- 16:10-16:30 Panel discussion

16:30-18:00 Poster presentations

19:00-23:59 Gala Dinner & Award Presentations

**Friday  
31 January**  
Windsor Oceanico,  
Asia, 3rd Floor



## SESSION 5: The individual exposome & its contribution to PH heterogeneity

*Moderators: Lan Zhao, Navneet Dhillon, Harry Karmouty Quintana (TBC)*

- 08:00-08:15 Drug exposures and PH  
Vinicio de Jesus Perez
- 08:15-08:30 Infectious exposures & pulmonary vascular disease  
Rudolf Oliveira
- 08:30-08:45 High altitude exposure and PH  
Silvia Ulrich
- 08:45-09:00 Early life exposures and pulmonary vascular disease  
Kara Goss
- 09:00-09:15 The Microbiome in PH  
Sasha Prisco

09:15-09:45 Refreshment break

*Moderators: Flavia Navarro, Luke Howard, Nicolas Kolaitis (TBC)*

- 09:45-10:00 Less considered exposures that contribute to PH  
Stephen Chan
- 10:00-10:15 Real world activity and exercise perception in PH patients - MyHeart Counts  
Niamh Errington
- 10:15-10:30 Insights from All of Us/EHR  
Evan Brittain
- 10:30-10:37 Abstract  
Speaker TBC
- 10:38-10:45 Abstract  
Speaker TBC
- 10:45-11:00 Exposome as a modifiable factor for PH management  
Bradley Maron

11:00-12:45 Lunch break, Barra Restaurant

- 11:00-12:00 **Hot topics from PVRI GoDeep**  
*Chairs: Martin Wilkins, Paul Hassoun, Werner Seeger*
- Overview of the GoDeep meta-registry  
Werner Seeger
  - Risk scores beyond group 1 PH – baseline and follow-up  
Athiththan Yogeswaran
  - Survival outcomes and Impact of targeted PAH therapy in PoPH  
Arun Jose
  - PAH-targeted therapies in group 3 PH – PDE5 inhibitor therapy associated with improved survival  
Khodr Tello
  - Male survival disadvantage in PH: independent of etiology, age, disease severity, comorbidities and treatment, but race-dependent  
Evan Brittain

## SESSION 6: Quantifying therapeutic responses

*Moderators: Patricia Thistlethwaite, Andy Sweatt, Steeve Provencher*

- 12:45-13:00 How should we define disease modification?  
Roham Zamanian
- 13:00-13:15 Developing imaging surrogates of vascular histology to quantify reverse remodeling  
Karin Tran Lundmark
- 13:15-13:23 Abstract - Digital endpoints & monitoring  
Speaker TBC
- 13:23-13:30 Abstract - Molecular classification  
Speaker TBC

13:30-13:45 **A joint talk with PVRI and PHA USA**  
Patient reported outcomes  
Frances Varian



13:45-14:15 Refreshment break

## SESSION 7: Leveraging disease heterogeneity in clinical trial design

*Moderators: TBC, Jane Leopold, Navneet Singh*

- 14:15-14:30 What is a platform trial?  
Charlotte Summers
- 14:30-14:45 Global perspective & digital trials  
Caio Tavares
- 14:45-15:00 Update in pediatric clinical trials  
Maria Jesus del Cerro

### Dragon's Den / Shark Tank

*Dragons/Sharks: Sonja Bartolome, Ardeshir Ghofrani, Charlotte Summers*

- 15:00-15:05 Dragon Den introduction  
Martin Wilkins
- 15:05-15:20 PHoenix trial (Rationalising current treatments using implanted devices)  
Alex Rothman
- 15:20-15:35 Stratosphere Bayesian trial for BMPR2 mutation carriers  
Sofia Villar
- 15:35-15:50 CRAVE: Canadian Right ventricular AdaptiVE platform trial  
Jason Weatherald
- 15:50-16:00 Summary  
Martin Wilkins
- 16:00-16:15 Building and testing a personal digital twin for PH  
Steve Niederer

**Saturday  
1 February**  
Windsor Oceanico,  
Asia, 3rd Floor

