

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

Programme overview

Pre-congress satellite meetings, Windsor Oceanico, 2nd Floor

Wednesday, 29 January

08:00-16:00	Innovative Drug Development Initiative (IDDI) Meeting, Oceania IX
08:00-16:00	Infection in Pulmonary Vascular Disease (iPVD) Consortium Meeting, Oceania X
08:00-12:00	Paediatric Task Force Meeting, Oceania II
12:30-18:00	PAH-ICON: International Consortium for Genetic Studies in PAH Meeting, Oceania II
13:30-17:15	Imaging Task Force, Bora Bora I
16:00-18:00	High Altitude Task Force Meeting, Oceania X
16:00-18:00	PVRI Board Meeting, Bora Bora IV

Functions and meetings

Thursday, 30 January

11:05-13:00	Career Catalyst Luncheon (bookable), Windsor Barra, Alhambra & El Pardo, 2nd Floor
18:00-20:00	Welcome Drinks Reception (open to all), Windsor Barra, Alhambra & El Pardo, 2nd Floor

Friday, 31 January

11:10-13:00	Women in PH Luncheon (bookable), Windsor Barra, Alhambra & El Pardo, 2nd Floor
19:00-23:59	Gala Dinner & Awards Presentation (bookable), Windsor Barra, Louvre, Ground Floor

Saturday, 1 February

11:00-12:00	Hot topics from PVRI GoDeep (bookable), TBC
TBC	Pulmonary Circulation Journal Meeting (closed meeting), TBC

Main scientific programme), Windsor Oceanico, Asia, 3rd Floor

Thursday, 30 January: Heterogeneity in the presentation of PH

08:00-11:05	Session 1: Establishing the framework for the classification and diagnosis of PH worldwide
11:05-13:00	Buffet lunch
13:00-16:00	Session 2: Risk stratification and treatment in the new era of PH therapeutics
16:00-18:00	Poster presentations

Friday, 31 January: Heterogeneity in the pathobiology of PH

08:00-11:10	Session 3: Vascular heterogeneity in chronic lung disease
11:10-13:00	Buffet lunch
13:00-16:30	Session 4: Heterogeneity in PH associated with heart disease
16:30-18:00	Poster presentations

Saturday, 1 February: Learning from heterogeneity to improve outcomes in PH

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sion 6: Quantifying therapeutic responses
sion 7: Leveraging disease heterogeneity in clinical trial design
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High-Altitude Task Force

Wednesday 29 January Windsor Oceanico, Oceania X, 2nd Floor

Challenges to the pulmonary circulation & beyond at high altitude

Moderators: Aasta Mishra, Silvia Ulrich

Each talk includes 10 minutes of discussion time

16:00-16:30	Birth at high altitude – immediate challenges & life-long consequences Alexandra Heath
16:30-17:00	The role of the endothelium in acute & chronic pulmonary vascular adaptation to hypoxia Wolfgang Kübler
17:00-17:30	Patients diagnosed with pulmonary vascular disease (PAH/CTEPH) at high altitude Silvia Ulrich
17:30-18:00	Lowlanders with COPD going to altitude – implication for the right heart & the pulmonary vasculature Mona Lichtblau
18:00-18:30	High Altitude Task Force meeting



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Paediatric & Congenital Heart Disease Task Force

Moderators: Maria Jesus del Cerro, Steve Abman, Shahin Moledina

Opportunities for Paediatric Task Force involvement in PVRI activities

08:00-08:08 PVRI GoDeep

TBC

08:08-08:15 PVRI Pulmonary Hypertension Global Patient Survey (PH GPS)

Shahin Moledina

08:15-08:23 Innovative Drug Development Initiative

Steven Abman

08:23-08:30 Discussion: Opportunities & proposal for Task Force lead initiatives

World Symposium recommendations & changes

08:30-08:40 Comments on the World Symposium - lights and shadows

Maria Jesus del Cerro

08:40-09:00 Main changes & rationale

TBC

09:00-09:30 Discussion

Collaboration between registries

09:30-10:00 Collaboration between registries: Let's make it real

Maria Jesus del Cerro

09:30-10:00 Discussion

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10:00-10:15 Refreshment break

Persistent pulmonary hypertension of the newborn

10:15-10:25 Let's talk about PPHN

Steven Abman

10:25-11:00 Defining the disease, clinical phenotypes, global differences & next steps -

Experiences & initiatived from the Task Force

11:00-11:30 I have a clinical case I want to discuss...

11:30-12:00 I have a research project I want to share...



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 loana Preston	
	09:12-09:27	Advanced medical imaging & AI in PH diagnosis & classification Andy Swift	
	09:27-09:57	Defreshment hypel	
	07.27-07.57	Refreshment break	
		atiana Kudryashova, Gustavo Heresi, Tim Lahm	
-	Moderators: To	Cardiopulmonary exercise testing in the diagnosis & phenotyping of PH patients	
	Moderators: To 09:57-10:12	Cardiopulmonary exercise testing in the diagnosis & phenotyping of PH patients Khodr Tello Classification & diagnosis of pediatric PH: Updates from the 7th WSPH	
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SESSION 2: Risk stratification & treatment in the new era of PH therapeutics

Thursday 30 January Windsor Oceanico,

Moderators: I	Pilar Escribano Subias, Sue Gue, Sandeep Sahay	Asia, 3rd Floor
13:00-13:15	Developments in risk stratification scores in PH Valentina Mercurio	
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-stag Nayeli Zayas	ge PH
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-morbiditi Anna Hemnes	es
14:52-15:07	Risk stratification & treatment of pediatric PH Rolf Berger	

15:30-16:00	Panel discussion: Realities & challenges of applying PH guidelines for diagnosis &
	treatment in LMIC

Medical & surgical management of CTED & CTEPH

racilitators. Virlicio de Jesus Perez, Werrier	Seeger, Aria Mocumbi, Geraid Maarinari,
Mauricio Orozco Levi	

16:00-18:00	Poster presentations
18:00-19:30	Drinks Reception

Basic/translational abstract

Speaker TBC

Hiromi Matsubara

15:07-15:15

15:15-15:30



11:05-13:00

Career Catalyst Luncheon

SESSION 3: Vascular heterogeneity in chronic lung disease

Moderators: Grazyna Kwapiszewska, Shelsey Johnson, Susan Majka

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

08:20-08:35 Translational investigations of PH in fibrotic lung disease models

Susan Majka

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 Tuder

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

Friday
31 January
Windsor Oceanico,

	Wildsof Oceanic
Moderators: N	lidhy Varghese, Baktybek Kojonazarov, Dora Haag (TBC) Asia, 3rd Floor
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



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

	Moderators:	Lan Zhao	, Navneet Dhillon	, Harry	/ Karmout	y Quintana
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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
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Sil	Ivia U	Ilrich

08:45-09:00	Early life exposures and pulmonary vascular disease
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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)

Moderators. Fr	avia Navarro, Luke nowaru, Nicolas Kolaitis (TDC)
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
- 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

Saturday 1 February

Windsor Oceanico, Asia, 3rd Floor

Moderators: F	Patricia Thistlethwaite, Andy Sweatt, Steeve Provencher Asia, 3rd Floor
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 Pulmonary Hypertension Association Empowered by hope

SESSION 7: Leveraging disease heterogeneity in clinical trial design

Refreshment break

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

Steve Niederer

Dragon's Den / Shark Tank

13:45-14:15

Dragons/Sharl	ks: 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 device Alex Rothman
15:20-15:35	Stratosphere Baysian 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

