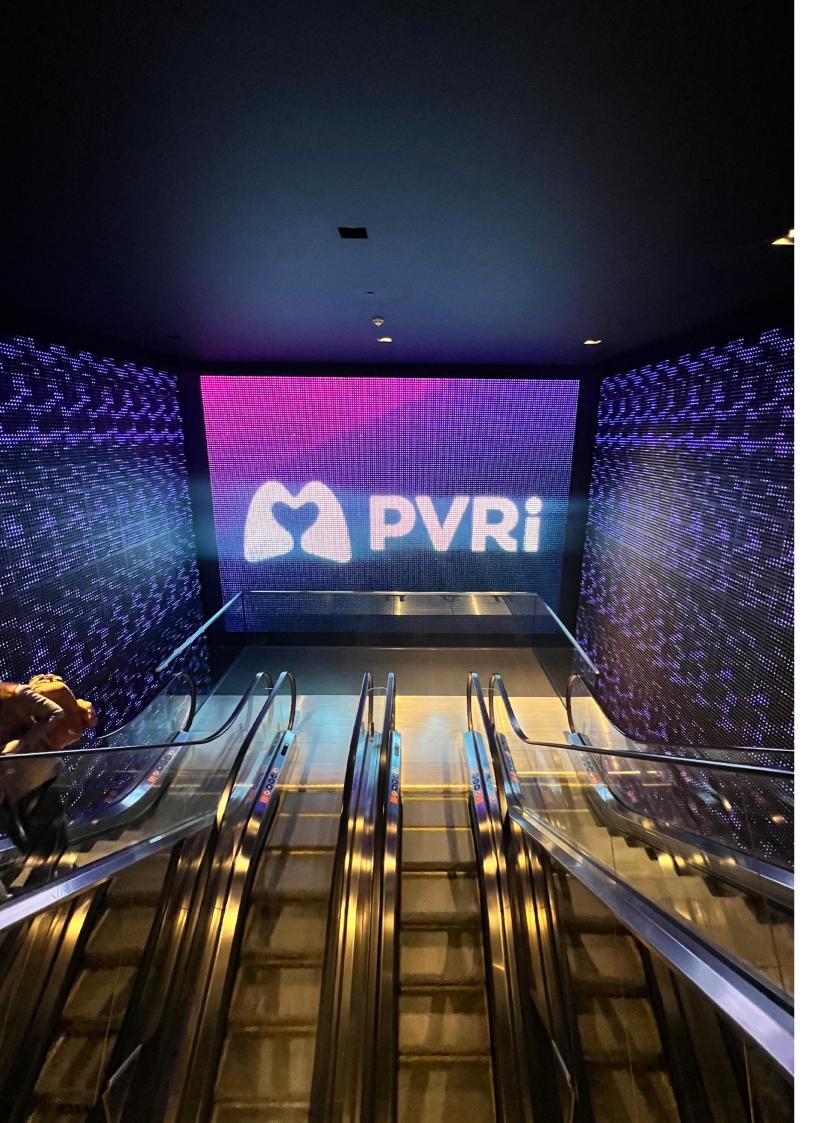


PVRI 2025 Rio Annual Congress

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, Oceania

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 & Congenital Heart Disease 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 Meeting, Oceania III
16:00-18:00	High Altitude Task Force Meeting, Oceania X
16:00-18:00	PVRI Board Meeting, Oceania VIII

Scientific programme, Windsor Oceanico, 3rd Floor, Asia

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 Windsor Barra, Ground Floor, Barra Restaurant
11:05-13:00	Career Catalyst Luncheon (bookable), Windsor Barra, 2nd Floor, Alhambra & El Pardo
13:00-16:00	Session 2: Risk stratification and treatment in the new era of PH therapeutics
16:00-18:00	Poster presentations
18:00-20:00	Welcome Drinks Reception (open to all), Windsor Barra, 2nd Floor, Alhambra & El Pardo

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 Windsor Barra, Ground Floor, Barra Restaurant
11:10-13:00	Women in PH Luncheon (bookable), Windsor Barra, 2nd Floor, Alhambra & El Pardo
13:00-16:30	Session 4: Heterogeneity in PH associated with heart disease
16:30-18:00	Poster presentations
19:00-23:59	Gala Dinner & Awards Presentation (bookable), Windsor Barra, Ground Floor, Louvre

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

08:00-11:00	Session 5: The individual exposome and its contribution to PH heterogeneity
11:00-12:45	Buffet lunch Windsor Barra, Ground Floor, Barra Restaurant
11:00-12:00	Hot topics from PVRI GoDeep (bookable), Windsor Oceanico, 3rd Floor, Asia
12:00-12:45	Pulmonary Circulation Meeting (closed), Windsor Oceanico, 2nd Floor, Oceania VIII
12:45-13:45	Session 6: Quantifying therapeutic responses
13:45-14:15	Refreshment break
14:15-16:15	Session 7: Leveraging disease heterogeneity in clinical trial design



Innovative Drug Development Initiative (IDDI)

Session 1: Introduction

08:00-08:05 Welcome

Speaker TBC

08:05-08:20 PVRI IDDI Introduction and organisational changes

Luke Howard, Peter Fernandes, Sandeep Sahay & Sylvia Nikkho

Session 2: New Modalities & Technologies in RHF & PH

Co-chairs: Peter Fernandes, Luke Howard

08:20-08:30 Introduction

Nick Hill

08:30-09:00 Panel/open discussion to debate on what we have learnt and what is

still unknown

Innovative approaches & technical advances with treating & diagnosing PH

Mark Pritzker/John Scandurra

09:20-09:40 Go Deep as a source data for in silico studies

Werner Seegar/Steve Niederer

09:40-10:20 Advancements in the use of Digital Health Technology from regulatory, pharma

& academic stakeholders: "Articulating the clinical, economic, and patient-

centric value of digital endpoints"

Speaker TBC

10:20-10:40 Refreshment break

Session 3: Real World Evidence / Real World Data

Co-chairs: Kellie Morland, Jason Weatherald

Real World Data Delphi to establish core data for global PH Registries 10:40-10:50

Sandeep Sahay

10:50-11:05 Scoping review

Sarah Cohen

11:05-11:15 Group discussion

Session 4: Patient Engagement & Empowerment

11:15-11:35 Understanding the patient perspective to advance care

Matt Granato

Session 5: Access to Care

11:35-11:55 Access to Care Workstream achievement and plan

Vijay Balasubramanian, Sandeep Sahay

11:55-12:05 Group discussion Session 6: Challenges of Clinical Trial Design, Conduct & Endpoints

Co-chairs: Harm Jan Bogaard, CQ Deng

Presentation on the Workstream paper "Clinical trial

design, end-points, and emerging therapies in PAH",

(Weatherald 2024, ERJ) & the key discussions that led to its development

Jason Weatherald

12:15-12:22 Clinical trial endpoints

Harm Jan Bogaard

12:22-12:30 Insights on clinical trial design from the perspective of industry

12:30-12:35 Group discussion

12:35-13:35 Lunch break

Session 7: Lung Transplantation in PH

Chair: Reda Girgis

13:35-13:50 Anaesthetic Management of PAH

Andrea Miltiades

13:50-14:05 VA ECMO in PAH

Lara Schaheen

14:05-14:15 Group discussion

Session 8: Paediatric Clinical Trial Design & Endpoints

Co-chairs: Steve Abman, Sylvia Nikkho

Theme: Heterogeneity in Paediatric PH

14:15-14:25 Introduction

Steven Abman

14:25-14:35 Enhancement of drug development in paediatric PAH – extrapolation from available

adult data

Sylvia Nikkho - remote

14:35-14:45 Challenges of drug development in bronchopulmonary dysplasia

Steven Abman & Bernard Thebaud-remote

14:45-14:55 Group discussion

Session 9: PH Group III

Co-chairs: Steve Nathan, Sylvia Nikkho

Past, present, & future of PVD in COPD 14:55-15:05

Gabor Kovacs

Imaging in PH and chronic lung disease 15:05-15:15

Shelsey Johnson

15:15-15:25 Group discussion

Wrap up and final comments 15:25-16:00



Wednesday

29 January

Windsor Oceanico,

2nd Floor, Oceania IX

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Infection in Pulmonary Vascular Disease (iPVD) Consortium Task Force

08:00-08:05 Welcome and opening remarks
Navneet Dhillon

Session 1: Current updates on infection associated PVDs

Co-chairs: Navneet Dhillon, Suellen Oliveira

08:05-08:25 Pulmonary vascular complications of tuberculosis: PH and beyond

Brian Allwood

08:25-08:45 Update on multiple co-morbidities and PVD

Peter Nyasulu

08:45-09:05 Update on HIV and PVD

Ana Olga Mocumbi

09:05-09:25 Mechanistic overlap between inflammatory pathways relevant to PH and

COVID-19 Stephen Chan

09:25-09:45 Pathobiology of inflammatory immune cells in schistosoma induced PH

Rahul Kumar

09:45-10:05 Fungal infections induced PH

Alexandre Fabro

10:05-10:30 Refreshment break

Session 2: Schistosomiasis associated PVD in Latin America

Co-chairs: Ghazwan Butrous, Brian Graham

10:30-10:50 Overview of Sch-PAH: case-based presentation of the disease spectrum

Angela Bandeira

10:50-11:10 Clinical and epidemiological aspects of Sch-PAH in Bahia

Camila Loureiro

11:10-11:30 Clinical and epidemiological aspects of Sch-PAH in Minas Gerais

Ricardo Correa

29 January

Windsor Oceanico, 2nd Floor, Oceania X

Wednesday

11:30-11:50 Clinical presentation of hepatoesplenic

schistosomiasis in Brazil Roberto José Carvalho

11:50-12:10 Advances in schistosomiasis basic research: insights from Brazil

Katia Oliveira

12:10-12:30 Insights from NIH schistosomiasis PAH multicenter study

Rudolf Oliveira

12:30-13:30 Lunch break

Panel discussions on schistosomiasis

Co-chairs: Navneet K Dhillon, Suellen Oliveira

13:30-14:00 Panel 1: Current challenges in diagnosing schistosomiasis, including biomarker

availability and diagnostic tools

Chair: Rogerio Souza

Panel: Eliane Mancuzo, Camila Rezende, Camila Loureiro

14:00-14:30 Panel 2: Epidemiological and preventive aspects of schistosomiasis in Brazil, including

current status, future perspectives, and impact on PH development

Chair: Ricardo Correa

Panel: Miriam Tendler, Roberto José Carvalho, Rudolf Oliveira, Angela Bandeira

14:30-15:00 Refreshment break

Session 3: Second hit phenomenon in infection associated PVDs

Co-chairs: Rudolf Oliviera, Vinicio de Jesus Perez

15:00-15:20 Air pollution, climate change, infection and PH

Mona Lichtblau

15:20-15:40 Emerging insights into HIV- and methamphetamine-driven PAH: From mechanisms

to management

Prangthip Charoenpong

15:40-16:00 Microbiome and schistosomiasis

Suellen Oliveira



Paediatric & Congenital Heart Disease Task Force

Opportunities for involvement with the Paediatric Task Force

08:00-08:03 Introduction and overview. Future directions for the Paediatric Task Force

Maria Jesus del Cerro

Ongoing activities and new opportunities at PVRI

Chair: Maria Jesus del Cerro

PVRI Pulmonary Hypertension Global Patient Survey (PH GPS) 08:03-08:15

Shahin Moledina

08:15-08:23 PVRI Innovative Drug Development Initiative (IDDI)

Steven Abman

08:23-08:30 PVRI GoDeep Registry

Megan Griffiths, Anne Hilgendorff

08:30-08:40 Discussion

Collaboration among international registries

Co-chairs: Shahin Modelina, Rolf Berger

08:40-08:55 Collaboration between registries: Let's make it real

Mary Mullen, Shahin Moledina, Maria del cerro, Rolf Berger

08:55-09:10 What adaptations are needed? Do we need rules?

Maria Jesus del Cerro, Megan Griffiths

09:10-09:40 Discussion

ΑII

I have a research project I want to share

09:40-09:50 Genetics of PH study

Eric Austin

Ongoing research: Genetic variants in pediatric PH across different registries

& countries Rolf Berger

Ongoing research: Boston Children's Hospital 10:00-10:10

Mary Mullen

Ongoing research in PAH in complex congenital heart disease in Mexico 10:10-10:20

Humberto Garcia-Aguilar

Refreshment break 10:20-10:35

Wednesday 29 January

Windsor Oceanico, 2nd Floor, Oceania II

7th World Symposium summary Co-chairs: Rolf Berger, Mary Mullen

10:35-10:45 Major recommendations & rationale

Dunbar Ivy

10:45-10:50 Neonatal PH: Disease phenotypes & next steps

Steven Abman

10:50-11:30 Discussion

ΑII

I have a clinical case I want to discuss

Chair: Usha Krishnan

11:30-12:00 Two cases to be presented



Imaging Task Force

International imaging datasets, analysis methods & clinical impact

13:30-13:40 Introduction David Kiely

Session 1: International PH imaging data

Co-chair: Khodr Tello, David Kiely

13:40-13:55	PVRI Imaging Task Force: updates and future endeavours David Kiely, Andy Swift, Rebecca Vanderpool
13:55-14:10	Integration of imaging into the GoDeep registry: challenges and opportunities Khodr Tello
14:10-14:25	Imaging practice in PH experience in South America (TBC)
14:25-14:50	Open discussion on integration of imaging into PVRI GoDeep

- > Summary of the session
- > Focused discussion on integration of data and opportunities
 - > What data to integrate
 - > How to collect, anonymise and store data
 - > Database access and management
 - > Opportunities for large scale analysis and large outcome studies

14:50-15:10 Refreshment break

Session 2: Current & novel imaging approaches to improve diagnosis & phenotyping Co-chairs: Raul San Jose Estepar, Sandeep Sahay

15:10-15:25	CT Imaging approaches for phenotyping of patients with PH Lilian Meijboom
15:25-15:40	Developments in CT imaging for pulmonary vessels Farbod Rahaghi
15:40–16:00	4D Flow in PH: better insights into PH hemodynamics Mohammed Elbaz, Ben Freed
16:00-16:15	Questions & roundtable discussion All
16:15-16:30	Refreshment break

Wednesday 29 January

Windsor Oceanico, 2nd Floor, Oceania III

Session 3: Using microCT & computational/Al approaches to improve our understanding of PVD Co-chairs: David Kiely, Rebecca Vanderpool

Synchrotron-based phase-contrast microcomputed tomography

(micro-CT) in pulmonary vascular phenotypes

Karin Tran Lundmark

16:45-17:00 Emerging computational approaches in imaging for PH

Pietro Nardelli

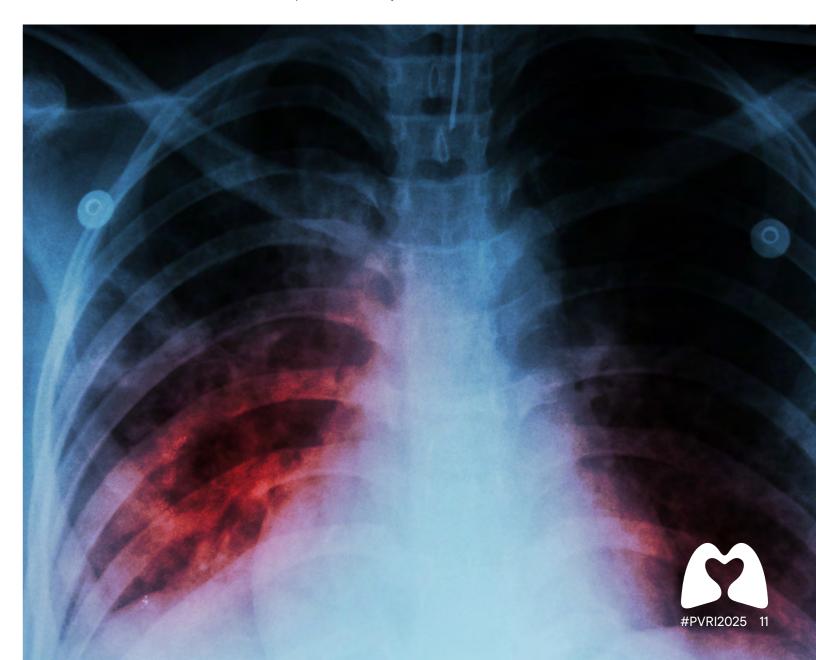
17:00-17:15 Clinical applications of Al

Andy Swift

17:15-17:30 Questions and roundtable discussion

17:30-17:40 Closing remarks

Rebecca Vanderpool, David Kiely



meet 5

PAH-ICON: International Consortium for Genetic Studies in PAH

12:30-12:40 Welcome

Micheala Aldred, Stefan Gräf

Invited presentations & panel discussions

Each talk includes 10 minutes of discussion time

12:40-13:20 Keynote: Rare disease landscape in Brazil and Latin America

Roberto Giugliani

13:20-14:00 Update from ClinGen PAH gene and variant expert panel

Carrie Welch

14:00-14:40 Update from the TBX4Life initiative

Eric Austin

14:40-14:50 Refreshment break

Abstract presentations

14:50-15:10 Late onset pulmonary veno-occlusive disease associated with rare

heterozygous variants of KDR and EIF2AK4

Vasile Foris

15:10-15:30 Functional characterization of novel KV1.5 variants in PAH

Andrea Olschewski

15:30-15:50 Spatial profiling identifies localised changes in gene expression in

pulmonary vascular remodeling in the sugen hypoxia rat model

James Klinger

15:50-16:10 Pathogenic PAH gene variants linked to pulmonary vascular pruning

in non-hispanic white COPD gene participants

Vasile Foris

16:10-16:30 Smaller right ventricular volumes correlate with elevated afterload in

unaffected carriers of a pathogenic BMPR2 variant

Eszter Tóth

16:30-16:45 Refreshment break

Building future PH cohorts

16:45 - 18:00

- > Examples and experiences from around the globe
- > PVRI GoDeep's future perspective
- > Core data set: Standardisation & harmonisation of phenotypes
- > Leveraging image data
- > Resources, federation & analysis strategies
- > Global ethics & governance

High-Altitude Task Force

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

Challenges to the pulmonary circulation & beyond at high altitude

Co-chairs: Aastha 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



Scientific programme speakers



Steven Abman University of Colorado



Vineet Agrawal Vanderbilt University Medical Center



Rolf Berger University Medical Center Groningen





Lahey Clinic

Ioana Preston



Sasha Prisco University of Minnesota



Farbod (Nick) Rahaghi Brigham and Women's Hospital / Harvard Medical School



Prashant Bobhate Kokilaben Dhirubai Ambani Hospital



Harm Jan Bogaard Amsterdam University **Medical Centers**



Evan Brittain Vanderbilt University Medical Center



Alex Rothman University of Sheffield



Soni Savai-**Pullamsetti** Max Planck Institute



Sandeep Sahay **Houston Methodist** Hospital



Stephen Chan University of Pittsburgh School of Medicine



Vinicio de Jesus Stanford University



Kara Goss UT Southwestern Medical Center



Catherine Simpson Johns Hopkins University



Natascha Sommer University of Giessen & Marburg Lung Center



Rogerio Souza University of Sao Paulo Medical School



Anna Hemnes Vanderbilt University Medical Center



Rachel Hopper Lucile Packard Children's Hospital/ Stanford University School of Medicine



Dunbar Ivy Children's Hospital Colorado/University of Colorado School of



Spiekerkoetter Stanford University



Charlotte **Summers** University of Cambridge



Andrew Swift University of Sheffield



Maria Jesus del Cerro Marin Hospital Universitario Ramón y Cajal



David Kiely University of Sheffield



Gabor Kovacs Medical University of



Caio Tavares Imperial College

Karin Tran-

Lundmark

Skane University



Khodr Tello University Hospital Giessen



Mark Toshner University of Cambridge



Wolfgang Kübler Charité -Universitätsmedizin



Grazyna Kwapiszewska Medical University Graz & Institute of Lung



Tim Lahm National Jewish Health



Hospital & Lund University Rebecca

Vanderpool

The Ohio State



Rubin Tuder University of Colorado Anschutz Medical Campus

Nidhy Varghese

Texas Children's



Silvia Ulrich University Hospital Zurich

Frances Varian

University of Sheffield



Charly Lai Indiana University School of Medicine

Bradley Maron

University of Maryland



Allan Lawrie Imperial College



Susan Majka National Jewish Health - University Of



Corey Ventetuolo Brown University



Sofia Villar University of Cambridge



Jason Weatherald

University of Alberta



Shahin Moledina



Steven Niederer Imperial College London

Hiromi Matsubara

Okayama Medical

Center



Rudolf Oliveira Federal University of Sao Paulo

Valentina Mercurio

Federio II University



Martin Wilkins Imperial College London



Roham Zamanian Stanford University



Nayeli Zayas Instituto Nacional de Cardiologia Ignacio



SESSION 1: I worldwide	Establishing the framework for the classification & diagnosis of PH
Moderators: K	atarina 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	The prevalence of PH in sickle cell disease in sub-Saharan Africa: A systemat
	review & meta-analysis
	Armella Santi
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
07 . _ 07 _ 7	Andy Swift
09:27-09:57	Refreshment break
Moderators: T	atiana Kudryashova, Tim Lahm, Gabor Kovacs
09:57-10:12	Cardiopulmonary exercise testing in the diagnosis & phenotyping of
	PH patients
	Khodr Tello
10:12-10:27	Classification & diagnosis of paediatric PH: Updates from the 7th WSPH
	Dunbar Ivy
10:27-10:35	Global treatment disparities within high- and middle-high income PH center
	A cluster analysis by the PVRI IDDI Access to Care Workstream
	Franz Rischard
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 &
10.00 11.00	early diagnosis
	Vineet Agrawal
11:05-13:00	Lunch break, Windsor Barra, Ground Floor, Barra Restaurant
11:05-13:00	Career Catalyst Luncheon, Windsor Barra, 2nd Floor, Alhambra & El Pardo
	Hosts: Jason Weatherald, Laura Oppegard, Katarina Zeder and Navneet Singh

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

Thursday 30 January Windsor Oceanico, 3rd Floor, Asia

Moderators: Pilar Escribano Subias, Sue Gue, Sandeep Sahay

Moderators: I	ors: Pilar Escribano Subias, Sue Gue, Sandeep Sahay		
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		
13:30-13:45	The impact of novel therapeutics on the treatment algorithm of PH Sandeep Sahay		
13:45-13:52	A monoclonal antibody targeting the ZIP12 transporter attenuates severe experimental PAH Stephanie Hopley		
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 paediatric PH Rolf Berger		
15:07-15:15	Preclinical models support the synergistic potential of seralutinib & sotatercept in treating PAH Daniel Bachteler		
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		
40:00 40:00			

18:00-19:30 Drinks Reception, Windsor Barra, 2nd Floor, Alhambra & El Pardo



SESSION 3: Vascular heterogeneity in chronic lung disease

	Moderators: G	arazyna 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
	08:35-08:42	RUPERT SWIFT AWARD LECTURE: Cluster analysis identifies computed tomography imaging-based phenotypes of PH associated with COPD-PH Shelsey Johnson
	08:42-08:50	Endotyping PH in COPD: possible role of systemic & lung iron status Horst Olschewski
	08:50-09:05	Translational investigations of PH in COPD disease models Natascha Sommer
-	09:05-09:20	Panel discussion: Comparison of vascular changes in CLD & PAH

		Natascha Sommer
	09:05-09:20	Panel discussion: Comparison of vascular changes in CLD & PAH
	09:20-09:50	Refreshment break
	Moderators:	David Kiely, Mona Lichtblau, Sarah MacIssac
	09:50-09:55	Introduction David Kiely
	09:55-10:10	Vasculature in CLD: Imaging insights Farbod (Nick) Rahaghi
	10:10-10:25	Pulmonary vascular heterogeneity: Insights from contemporary pathological approaches Rubin Tuder
	10:25-10:33	Elevated vascular hyaluronan as a therapeutic target in PH associated with lung fibrosis Harry Karmouty Quintana
	10:33-10:40	BUTROUS FOUNDATION YOUNG INVESTIGATOR AWARD LECTURE: Impact of IRG1/Itaconate axis on cardiopulmonary phenotype: linking bone marrow dynamics to inter-organ communication Golnaz Hesami
	10:40-10:55	Vascular changes in paediatric chronic lung disease Steven Abman
	10:55-11:10	Panel discussion: Should we target vascular changes in chronic lung disease?
	11:10-13:00	Lunch break, Windsor Barra, Ground Floor, Barra Restaurant
	11:10-13:00	Women in PH Luncheon, Windsor Barra, 2nd Floor, Alhambra & El Pardo

Host: Anna Hemnes Speakers: Jill Maron, Karin Tran-Lundmark, Ana Olga Mocumbi

SESSION 4: Heterogeneity in PH associated with heart disease

Friday 31 January

	Windsor Oceanico
Moderators: N	lidhy Varghese, Baktybek Kojonazarov, Rebecca Vanderpool 3rd Floor, Asia
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 Shahin Moledina
13:35-13:42	PH is highly prevalent in rheumatic heart disease in sub-Saharan Africa: a systematic review & meta-analysis Katarina Zeder
13:42-13:57	Animal models of heart disease PH Wolfgang Kübler
13:57-14:05	17β-Estradiol enhances right ventricle angiogenesis & endothelial cell fatty acid oxidation in PAH in a carnitine palmitoyltransferase 1-dependent manner Simon Bousseau
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
15:10-15:17	The role of SMYD2/RUNX2 axis in right ventricular hypertrophy & failure Vandna Sapehia
15:17-15:32	Advances in imaging RV function in humans & animal models with PH Rebecca Vanderpool
15:32-15:40	Effects of Dapagliflozin on PH in a rat pulmonary vein banding (PVB) model Leonhard Blumrich
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, Windsor Barra, Ground Floor, Louvre



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

Moderators: I	Lan Zhao	, Navneet Dhill	on, Harı	ry 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
l	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: I	Moderators: Flavia Navarro, Luke Howard, Rudolf Oliveira		
09:45-10:00	Less considered exposures that contribute to PH Stephen Chan		
10:00-10:07	Novel potential connection between lung microbiome dysbiosis & P2X7R/c-IAP2-regulated endothelial survival in schistosomiasis-associated PH Suellen Darc Oliveira		
10:07-10:22	Real world activity and exercise perception in PH patients - MyHeart Counts Allan Lawrie		
10:22-10:37	Insights from All of Us/EHR Evan Brittain		
10:37-10:45	Early recruitment & alternative activation of macrophages initiate pathophysiological changes in pulmonary vasculature upon smoke exposure Vinita Sharma		
10:45-11:00	Exposome as a modifiable factor for PH management Bradley Maron		
11:00-12:45	Lunch break, Windsor Barra, Ground Floor, 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

Saturday 1 February Windsor Oceanico,

3rd Floor, Asia

M	oderators:	Patricia	Thistlethwaite, A	Andy S	Sweatt, Steeve	Provencher
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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	CT-based discrimination of CTEPH using deep learning clot vessel radiomics & machine learning Pietro Nardelli
13:23-13:30	Novel insights from functional respiratory imaging (FRI) analysis in phase 2 INS1009-211 study: Treprostinil palmitil inhalation powder (TPIP) impact on pulmonary vasculature in patients with PH-ILD Colin Church
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

Moderators: Jane Leopold, Navneet Singh, Roham Zamanian

Refreshment break

14:15-14:30	Charlotte Summers
14:30-14:45	Global perspective & digital trials Caio Tavares
14:45-15:00	Update in paediatric clinical trials Maria Jesus del Cerro

Dragon's Den / Shark Tank

13:45-14:15

Dragons/Sharks: Sonja Bartolome, Ardeshir Ghofrani, Charlotte Summers, Paul Corris				
	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 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 Steve Niederer		

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CME Credits



The PVRI 2025 Rio: Embracing Heterogeneity, Rio de Janeiro, Brazil 30/01/2025 - 01/02/2025, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 13.5 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

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