5th WORLD SYMPOSIUM ON PULMONARY HYPERTENSION

Nice
February 27-28 / March 1, 2013
Cover:

LA DANSE
Henri Matisse, 1909
Museum of Modern Art, New York City
Introduction

Traditionally the PH World Symposia, started in Geneva in 1973 and held every 5 years after the Evian edition in 1998 (Venice 2003, Dana Point 2008), have marked the progresses in pulmonary hypertension science and have paved the way for further advancements. The symposia proceedings constitute relevant publications which are among the more cited in this scientific area.

Each new edition of the WSPH has been bigger than the previous one testifying the growing interest of the stakeholders on this medical condition.

The structure of the 5th WSPH consists in 12 sessions where world specialists in the field, divided in 12 Task Forces, present the results of their studies of the last two years regarding some topic items concerning 12 different fields:

1. Pathology & Pathobiology
2. Genetics & Genomic
3. Definitions & Classifications (and particularities of different PAH subgroups)
4. Pathophysiology (focusing on exercise and RV)
5. Epidemiology & Registries
6. Diagnosis & Prognosis
7. Therapy - Standard of Care
8. Therapy - Goals
10. CTEPH
11. PH due to Left Heart Diseases and Chronic Lung Diseases
12. Pediatric PH

The objectives of the Symposium are:

- Review of the major advances in pulmonary vascular science in the past 5 years
- Elaboration of the available evidence in different basic and clinical areas by experts of the Task Forces
- Identification of relevant basic and clinical questions to be answered by the Task Forces
- Evaluation of the gaps of evidence in different areas and proposals for future collaborative research programs
- Elaboration of documents by the Task Forces, summarizing the results of pre-symposium meetings (previous 18-24 months)
- Discussion of the Task Forces documents at the symposium sessions with worldwide experts and with other stakeholders
- Final drafting of peer reviewed papers to be included in a medical journal supplement to facilitate the implementation of the 5th WSPH conclusions

Our aim is that this symposium will foster constructive scientific interactions and collaborations in the very unique scenario of the bay of Nice!
Patronages
The Symposium Steering Committee

Robyn J. Barst, MD
New York, NY, USA

Nazzareno Galiè, MD
Bologna, Italy

Ardeshir H. Ghofrani, MD
Giessen, Germany

Marc Humbert, MD
Paris, France

Michael D. McGoon, MD
Rochester, MN, USA

Valerie V. McLaughlin, MD
Ann Arbor, MI, USA

John Newman, MD
Nashville, TN, USA

Lewis J. Rubin, MD
San Diego, CA, USA

Werner Seeger, MD
Giessen, Germany

Gérald Simonneau, MD
Paris, France

The Symposium Secretariat

I&C s.r.l.
Via Andrea Costa, 202/6
40134 Bologna (IT)
Ph: +39 - (0)51.614.4004
Fax: +39 - (0)51.614.2772
@: info@wsph2013.com
## Index

- **MAP OF THE CONGRESS CENTER** ................................................................. pag. 8
- **SYMPOSIUM TIMETABLE** ........................................................................ pag. 9

### SCIENTIFIC PROGRAM

**WEDNESDAY, FEBRUARY 27**
- TASK FORCE 1 – PATHOLOGY AND PATHOBIOLOGY ................................ pag. 13
- TASK FORCE 2 – GENETICS AND GENOMIC ............................................ pag. 14
- TASK FORCE 3 – DEFINITIONS AND CLASSIFICATIONS AND PARTICULARITIES OF DIFFERENT PAH SUBGROUPS ................................................................. pag. 15
- TASK FORCE 4 – PATHOPHYSIOLOGY ......................................................... pag. 16

**THURSDAY, FEBRUARY 28**
- TASK FORCE 5 – EPIDEMIOLOGY AND REGISTRIES ............................... pag. 17
- TASK FORCE 6 – DIAGNOSIS AND PROGNOSIS ....................................... pag. 18
- TASK FORCE 7 – THERAPY - STANDARD OF CARE .............................. pag. 19
- TASK FORCE 8 – THERAPY - GOALS ......................................................... pag. 20

**FRIDAY, MARCH 1**
- TASK FORCE 9 – NEW TRIALS DESIGN AND NEW THERAPIES .............. pag. 21
- TASK FORCE 10 – CTEPH ....................................................................... pag. 22
- TASK FORCE 11 – PH DUE TO LEFT HEART DISEASES AND CHRONIC LUNG DISEASES ................................................................. pag. 23
- TASK FORCE 12 – PEDIATRIC PH ............................................................... pag. 24

### POSTER SESSIONS
- YOUNG INVESTIGATOR AWARDS ............................................................... pag. 27
- POSTERS EXPOSED ON WEDNESDAY, FEBRUARY 27 ............................ pag. 30
- POSTERS EXPOSED ON THURSDAY, FEBRUARY 28 ............................... pag. 40
- POSTERS EXPOSED ON FRIDAY, MARCH 1 ............................................. pag. 54

### GENERAL INFORMATION
- INDEX OF ABSTRACTS AUTHORS AND TASK FORCES MEMBERS ....... pag. 68

### SPONSORS
- .................................................................................................................. pag. 83
Map of the Acropolis

CONGRESS CENTER

AGORA 1

REGISTRATION DESKS AND PH ASSOCIATION BOOTH

INFO POINT

MAIN ENTRANCE

AGORA 2

POSTER AREA

APH LION MEETING HALL

BAR AND RELAX AREA

AGORA 3

LUNCH AREA
<table>
<thead>
<tr>
<th>time</th>
<th>Wednesday, February 27</th>
<th>Thursday, February 28</th>
<th>Friday, March 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.45-09.00</td>
<td>Introduction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apollon Hall</td>
<td>G. Simonneau</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apollon Hall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.30-11.00</td>
<td>coffee break</td>
<td>coffee break</td>
<td>coffee break</td>
</tr>
<tr>
<td>Agora 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.00-12.30</td>
<td>TF 2. Genetics and Genomic</td>
<td>TF 6. Diagnosis and Prognosis</td>
<td>TF 10. CTEPH</td>
</tr>
<tr>
<td>Apollon Hall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.30-14.00</td>
<td>Lunch and posters</td>
<td>Lunch and posters</td>
<td>Lunch and posters</td>
</tr>
<tr>
<td>Agora 2 and 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.00-15.30</td>
<td>TF 3. Definitions and Classifications</td>
<td>TF 7. Therapy - Standard of Care</td>
<td>TF 11. PH due to Left Heart Diseases and Chronic Lung Diseases</td>
</tr>
<tr>
<td>Apollon Hall</td>
<td>and Particularities of Different PAH Subgroups</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.30-16.00</td>
<td>coffee break</td>
<td>coffee break</td>
<td>coffee break</td>
</tr>
<tr>
<td>Agora 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.00-17.30</td>
<td>TF 4. Pathophysiology (focusing on exercise and RV)</td>
<td>TF 8. Therapy - Goals</td>
<td>TF 12. Pediatric PH</td>
</tr>
<tr>
<td>Apollon Hall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.30-18.00</td>
<td>Young Investigator Awards</td>
<td></td>
<td>Final remarks and next steps N. Galié</td>
</tr>
<tr>
<td>Apollon Hall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.00-18.30</td>
<td>Welcome Cocktail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agora 2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TF = Task Force
SCIENTIFIC PROGRAM
**APOLLON HALL**

**08.45-09.00**  
Introduction  
Gérald Simonneau  Paris FRANCE

**09.00-10.30**  
Task Force 1. **Pathology & Pathobiology**

Chairman: Rubin M. Tuder  Denver CO USA  
Co-Chairman: Nicholas Morrell  Cambridge UK

Stephen L. Archer  Chicago IL USA  
Peter Dorfmüller  Paris FRANCE  
Serpil C. Erzurum  Cleveland OH USA  
Christophe Guignabert  Paris FRANCE  
Evangelos Michelakis  Edmonton CANADA  
Marlene Rabinovitch  Stanford CA USA  
Ralph T. Schermuly  Giessen GERMANY  
Kurt R. Stenmark  Denver CO USA

A. Does the pulmonary venous system play an important role in PAH and to what extent are PAH and PVOD part of the same spectrum of disease?  
B. Are there distinct pathways in vascular cells in mild vs. severe pulmonary hypertension?  
C. Cell proliferative changes in PAH distal pulmonary arteries: differences and similarities with traditional neoplastic disease  
D. The role of inflammation in the initiation and progression of different PAH types

**AGORA 2**

**10.30-11.00**  
coffee break
11.00-12.30

Task Force 2. **Genetics and Genomic**

Chairman: John Newman Nashville TN USA
Co-Chairman: Richard C. Trembath London UK

Micheala Aldred Cleveland OH USA
Wendy K. Chung New York NY USA
C. Gregory Elliott Murray UT USA
Marc W. Geraci Denver CO USA
Ekkehard Grünig Heidelberg GERMANY
Marc Humbert Paris FRANCE
James E. Loyd Nashville TN USA
Rajiv D. Machado London UK
Florent Soubrier Paris FRANCE

A. What are the ethical issues that need discussion and implementation in PH?
B. What are the signaling consequences of impaired BMPR2 gene function?
C. What application of genetic advances, such as miRNA, epigenetics for treatment and prevention of heritable PAH?
D. What are the co-factors that cause expression of disease in heritable PH, and what other genes may cause heritable PH?

12.30-14.00

Lunch and posters
APOLLON HALL

14.00-15.30

Task Force 3. Definitions and Classifications and Particularities of Different PAH Subgroups

Chairman: Gérald Simonneau Paris FRANCE
Co-Chairman: Rogerio Souza Sao Paulo BRAZIL

Ian T.K. Adatia Edmonton CANADA
David S. Celermajer Sydney AUSTRALIA
Christopher P. Denton London UK
Michael A. Gatzoulis London UK
Ardeschir H. Ghofrani Giessen GERMANY
Miguel Angel Gómez Sánchez Madrid SPAIN
Raman Krishna Kumar Cochin Kerala INDIA
Michael Landzberg Boston MA USA
Roberto Machado Chicago IL USA
Horst Olschewski Graz AUSTRIA
Ivan Robbins Nashville TN USA

A. Should we include rest PVR in the definition of PH and how do we define and handle “borderline” PH? Should PVR and/or PAP on exercise be reintroduced in the definition?
B. PAH associated with CHD in adults
C. Are there novel drugs and toxins inducing PAH?
D. Which changes in group 5? New subgroups identified or previous one to shift to another PH group. Should we maintain sickle cell disease-associated PH in group 1?

AGORA 2

15.30-16.00

coffee break
Scientific Program

APOLLON HALL

16.00-17.30
Task Force 4. Pathophysiology (focusing on exercise and RV)

Chairman: Anton Vonk Noordegraaf Amsterdam THE NETHERLANDS
Co-Chairman: Paul M. Hassoun Baltimore MD USA

Kelly M. Chin Dallas TX USA
Paul R. Forfia Philadelphia PA USA
François Haddad Stanford CA USA
Steven M. Kawut Philadelphia PA USA
Joost Lumens Maastricht THE NETHERLANDS
Robert Naeije Brussels BELGIUM
John Newman Nashville TN USA
Ronald J. Oudiz Los Angeles CA USA
Steeve Provencher Chemin Sainte-Foy CANADA
Adam Torbicki Otwock POLAND
Norbert Voelkel Richmond VA USA

A. How to best assess RV contractility and function?
B. What are the underlying molecular mechanisms and metabolic characteristics of the failing RV in PAH?
C. What is the definition and relevance of exercise-induced PH?
D. What are the most relevant surrogate biomarkers of RV-PA function and their role in diagnosis and prognosis of PH?

17.30-18.00
Young Investigator Awards

AGORA 2

18.00-18.30
welcome cocktail
Scientific Program

APOLLON HALL

09.00-10.30
Task Force 5. Epidemiology and Registries

Chairman: Marc Humbert Paris FRANCE
Co-Chairman: Michael D. McGoon Rochester MN USA

Raymond L. Benza Pittsburgh PA USA
Maria del Pilar Escribano Subias Madrid SPAIN
Xin Jiang Shanghai CHINA
David P. Miller San Francisco CA USA
Andrew Peacock Glasgow UK
Joanna Pepke-Zaba Cambridge UK
Tomas Pulido Mexico City MEXICO
Stuart Rich Chicago IL USA
Stephan H. Rosenkranz Cologne GERMANY
Samy Suissa Montreal CANADA

A. Are PAH phenotypes changing in the modern management era?
B. Biases on survival analysis from registries
C. Is PAH survival improving in the modern management era?
D. Guidelines for registries implementation

AGORA 2

10.30-11.00
coffee break
A. Should we include rest PVR in the definition of PH and how do we define and handle “borderline” PH?

B. What should be the upper limit of the PCWP, and what are the roles of fluid challenge and exercise hemodynamics in the identification of HFpEF patients?

C. How do we diagnose PAH in its early stages (including screening programs for high-risk populations)?

D. Which are most useful clinically - prognostic factors measured at baseline or prognostic factors that change with therapy?
APOLLON HALL

14.00-15.30

Task Force 7. Therapy - Standard of Care

Chairman: Nazzareno Galiè Bologna ITALY
Co-Chairman: Anne M. Keogh Sydney AUSTRALIA

Paul A. Corris Newcastle Upon Tyne UK
Adaani Frost Houston TX USA
Reda E. Girgis Grand Rapids MD USA
John Granton Toronto CANADA
Zhi Cheng Jing Shanghai CHINA
Walter Klepetko Vienna AUSTRIA
Michael D. McGoon Rochester MN USA
Valerie V. McLaughlin Ann Arbor MI USA
Ioana R. Preston Boston MA USA
Lewis J. Rubin San Diego La Jolla CA USA
Julio Sandoval Mexico City MEXICO
Werner Seeger Giessen GERMANY

A. Do we have additional information on the role of rehabilitation in PAH patients?
B. Should first-line combination therapy be the gold standard of severe WHO FC IV PAH (and what about other FC)?
C. How can we modify the current treatment algorithm including the new approved drugs?
D. Should we adapt the treatment algorithm to the different PAH types and to different countries (country organization)?

AGORA 2

15.30-16.00

coffee break
**Task Force 8. Therapy – Goals**

Chairman: Vallerie V. McLaughlin  Ann Arbor MI USA  
Co-Chairman: Olivier Sitbon  Paris FRANCE

Sean Patrick Gaine  Dublin IRELAND  
Luke S. Howard  London UK  
Hanno H. Leuchte  Munich GERMANY  
Michael A. Mathier  Pittsburg PA USA  
Sanjay Mehta  London Ontario CANADA  
Massimiliano Palazzini  Bologna ITALY  
Myung H. Park  Baltimore MD USA  
Victor F. Tapson  Durham NC USA

A. Are baseline and/or follow up prognostic predictors appropriate as treatment goals?  
B. Is WHO FC III an unacceptable status in treated PAH patients?  
C. Are treatment goals different in different PAH subgroups?  
D. Any novel treatment goal from new technologies (CMR, biochemical markers, etc)?
Scientific Program

APOLLON HALL

09.00-10.30


Chairman: Ardeschir H. Ghofrani  Giessen GERMANY
Co-Chairman: Lewis J. Rubin  San Diego La Jolla CA USA

Robyn J. Barst  New York NY USA
Todd M. Bull  Denver CO USA
Amany N. El-Gazayerly  The Hague THE NETHERLANDS
Tom Fleming  Seattle WA USA
Mardi I. Gomberg-Maitland  Chicago IL USA
Friedrich Grimminger  Giessen GERMANY
Maurizio Rainisio  Sanremo ITALY
Rajeev Saggar  Los Angeles CA USA
Duncan J. Stewart  Ottawa CANADA
Norman Stockbridge  Silver Spring MD USA
Carlo Ventura  Bologna ITALY

A. Any residual role of short-term trials using 6MWT as primary end-point for the approval of new PAH medications? Are there alternatives to traditional clinical worsening end-points in case current trials demonstrate feasibility issues?

B. Which is the best approach to compare sequential combination therapy with upfront combination therapy in PAH patients?

C. In which type of PAH patients is the benefit/risk ratio of tyrosine kinase inhibitors acceptable in PAH? What about additional new compounds?

D. Which are the new promising targets for PAH treatment (including genes and regenerative approaches)?

AGORA 2

10.30-11.00

coffee break
Scientific Program

APOLLON HALL

11.00-12.30

Task Force 10. CTEPH

Chairman: Nick H. Kim  San Diego La Jolla CA USA
Co-Chairman: Eckhard Mayer  Bad Nauheim GERMANY

Richard Channick  Boston MA USA
Philippe Dartezelle  Paris FRANCE
Marion Delcroix  Leuven BELGIUM
Pavel Jansa  Prague CZECH REPUBLIC
David P. Jenkins  Cambridge UK
Irene Lang  Vienna AUSTRIA
Michael M. Madani  San Diego La Jolla CA USA
Hitoshi Ogino  Tokyo JAPAN
Vittorio Pengo  Padua ITALY

A. Is pulmonary angiography still the gold standard for evaluating operability? What is the role of lung perfusion scan?
B. What advancements or changes have been made in the surgical treatment of CTEPH? Is there a role for pulmonary angioplasty?
C. What are the biological/pathological rationale and clinical evidence for medical treatment of CTEPH? Should approach to treatment factor in whether the patient is operable, deemed inoperable, or has persistent PH following endarterectomy?
D. How do we define successful treatment outcome in CTEPH?

AGORA 2 AND AGORA 3

12.30-14.00

Lunch and posters
APOLLON HALL

14.00-15.30

Task Force 11, PH due to Left Heart Diseases and Chronic Lung Diseases

Chairman: Werner Seeger Giessen GERMANY
Co-Chairman: Jean-Luc Vachiéry Brussels BELGIUM

Yochai Adir Haifa ISRAEL
Joan Albert Barberà Barcelona SPAIN
Hunter Champion Pittsburgh PA USA
John Gerard Coghlan London UK
Vincent Cottin Lyon FRANCE
Teresa De Marco San Francisco CA USA
Nazzareno Galiè Bologna ITALY
Stefano Ghio Pavia ITALY
Simon Gibbs London UK
Fernando J. Martinez Ann Arbor MI USA
Marc J. Semigran Boston MA USA
Gérald Simonneau Paris FRANCE
Athol U. Wells London UK

A. How to define out of proportion PH in left heart disease (TPG vs diastolic gradient; resting and exercise conditions)?
B. How to define out of proportion PH in COPD and ILD patients (including PFT and HRCT scan; resting and exercise conditions)?
C. Evidence for appropriate benefit to risk ratio of PAH approved drugs in patients with PH due to left heart or chronic lung disease?
D. Any specific targets for PH therapy in left heart or chronic lung diseases?

AGORA 2

15.30-16.00

coffee break
APOLLON HALL

16.00-17.30
Task Force 12. Pediatric PH

Chairman: Dunbar D. Ivy Denver CO USA
Co-Chairman: Maurice Beghetti Geneva SWITZERLAND

Steven Abman Denver CO USA
Robyn J. Barst New York NY USA
Rolf M.F. Berger Groningen THE NETHERLANDS
Damien Bonnet Paris FRANCE
Tom Fleming Seattle WA USA
Sheila Glennis Haworth Busk London UK
Usha Raj Chicago IL USA
Erika Rosenzweig New York NY USA
Ingram Schulze-Neick London UK
Robin H. Steinhorn Chicago IL USA

A. Do we need specific definitions for PH, its classification and what is an acute response with acute vasodilator testing with pediatric patients, and is this the same regardless of the age of the child?
B. Are the prognostic parameters developed for adults valid also in pediatric patients?
C. Are treatment goals and end-points for clinical trials similar in adults and pediatric patients?
D. Are specific diagnostic and treatment algorithms required in pediatric patients?

17.30-18.00
Final remarks and next steps
Nazzareno Galiè Bologna ITALY
ABSTRACTS
PRESENTATION
Poster Sessions

YOUNG INVESTIGATOR AWARDS

These posters will be exposed for the whole duration of the Symposium:
February 27, 28 and March 1

BASIC SCIENCE

REGRESSION OF PULMONARY VASCULOAPATHY AFTER SURGICAL TREATMENT FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION IN PIGLETS
Boulade David[1], Guilhaire Julien[1], Mercier Ola[2], Dorfmüller Peter[2], Decante Benoît[1], Eddahibi Saadia[1], Dartevelle Philippe[1], Fadel Elie[2]
[1]Laboratoire de recherche chirurgicale, INSERM U999 – Centre Chirurgical Marie Lannelongue – France, [2]Laboratoire de recherche chirurgicale, INSERM U999, service of chirurgie thoracique, vasculaire et de transplantation pulmonaire et cardio-pulmonaire – Centre Chirurgical Marie Lannelongue – France

CHARACTERIZATION OF HISTONE DEACETYLASES IN PULMONARY ARTERIAL HYPERTENSION
Chelladurai Prakash[1], Basineni Sobha[1], Schmaranzer Mario[2], Dabral Swati[1], Bauer Uta-Maria[3], Seeger Werner[2], Pullamsetti Soni Savai[1]

PULMONARY LYMPHOID NEOGENESIS, A NEW FEATURE OF IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION?
Perros Frédéric[1], Dorfmüller Peter[1], Montani David[1], Girerd Barbara[1], Mercier Ola[1], Mussot Sacha[1], Humbert Marc[1], Cohen-Kaminsky Sylvia[1]
[1]Université Paris-Sud; Labex LERMIT; DHU TORINO; Hôpital Bicêtre; INSERM U999, Centre Chirurgical Marie Lannelongue – Le Plessis-Robinson – France

ROLE OF MICRONRNA 17/92 CLUSTER AND MICRONRNA 21 IN THE PATHOGENESIS OF PULMONARY HYPERTENSION – NOVEL THERAPEUTIC TARGETS
Pullamsetti Soni Savai[1], Döbele Carmen[2], Fischer Ariane[2], Savai Rajkumar[1], Kojonazarov Bakybek[3], Dahal Bhola Kumar[4], Ghofrani Hossein Ardeschir[3], Weissmann Norbert[2], Grimminger Friedrich[2], Bonauer Angelika[2], Seeger Werner[2], Zoiher Andreas M.[2], Dimmel Stefan[2], Schermuly Ralph[2]

CD74-DEPENDENT INTERLEUKIN-6 AND MONOCYTE CHEMOATTRACTANT PROTEIN-1 SECRETION BY PULMONARY ENDOTHELIAL CELLS IN IDIOPATHIC PULMONARY HYPERTENSION
Tu Ly[1], Huertas Alice[1], Ricard Nicolas[1], Phan Carole[1], Seferian André[2], Le Hiess Morane[1], Fadel Elie[1], Girerd Barbara[1], Montani David[1], Dartevelle Philippe[1], Simonneau Gérald[2], Humbert Marc[2], Guignabert Christophe[1]
**CLINICAL SCIENCE**

**GENETIC COUNSELING IN PULMONARY ARTERIAL HYPERTENSION: 10 YEARS OF EXPERIENCE FROM THE FRENCH REFERRAL CENTRE**

Girerd Barbara[1], Montani David[2], Eyries Mélanie[1], Yaici Azzedine[2], Coulet Florence[1], Jais Xavier[2], Savale Laurent[2], Sitbon Olivier[2], Soubrier Florent[2], Simonneau Gérard[1], Humbert Marc[2]


**ANALYSIS OF SMALL ARTERIES AND FIBROTIC AREAS OF RIGHT VENTRICLE FROM AUTOPSY SPECIMENS OF PULMONARY ARTERIAL HYPERTENSION PATIENTS**

Iwasa Toru[1], Yamada Osamu[1], Ishibashi-Ueda Hatsue[1]

[1]National Cerebral and Cardiovascular Center ~ Suita ~ Japan

**PULMONARY ARTERIAL HYPERTENSION: TEMPORAL CHANGES IN PATIENT CHARACTERISTICS, MANAGEMENT STRATEGIES AND OUTCOMES**

Larsen Carolyn[1], Le Rachel[1], Fenstad Eric[1], McGoon Michael[1], Frantz Robert[1], Kane Garvan[1]


**DOES VENTILATORY RESPONSE TO EXERCISE DIFFER BETWEEN PATIENTS WITH PULMONARY VENO-OCCCLUSIVE DISEASE (PVOD) AND THOSE WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION (IPAH)?**

Laveneziana Pierantonio[1], Garcia Gilles[1], Dorrmüller Peter[1], Girerd Barbara[1], Similowski Thomas[1], Sitbon Olivier[1], Simonneau Gérard[1], Humbert Marc[1], Montani David[1]


**A RANDOMIZED OPEN LABEL STUDY COMPARING FIRST-LINE TREATMENT WITH BOSENTAN OR SILDENAFIL IN PULMONARY ARTERIAL HYPERTENSION (PAH): LONG-TERM RESULTS**

Mazzanti Gaia[1], Albini Alessandra[1], Terzi Francesca[1], Palazzini Massimiliano[1], Bachetti Cristina[1], Conficoni Elisa[1], Rizzo Nicole[1], Dardi Fabio[1], Rinaldi Andrea[1], Gotti Enrico[1], Monti Enrico[1], Manes Alessandra[1], Galié Nazzareno[1]

[1]Institute of Cardiology, University of Bologna ~ Italy

**LONG TERM RESPONSE TO CALCIUM CHANNEL BLOCKERS IN BMPR2 MUTATION CARRIERS: DIFFERENT PHENOTYPES FOR A SAME GENOTYPE**

Montani David[1], Girerd Barbara[1], Soubrier Florent[1], Sitbon Olivier[1], Humbert Marc[1], Simonneau Gérard[1]


**END-EXPIRATORY PULMONARY CAPILLARY WEDGE PRESSURE <=15MMHG IS A RELIABLE INDICATOR OF A NORMAL LEFT VENTRICULAR FILLING PRESSURE IN A HIGH PRETEST PROBABILITY PULMONARY ARTERIAL HYPERTENSION POPULATION**

Oliveira Rudolf[1], Vieira Machado Ferreira Eloara[1], Ramos Roberta[1], Messina Carolina[1], Silva Celia[1], Arakaki Jaquelina[1]

[1]Federal University of São Paulo - UNIFESP – São Paulo – Brazil
UPDATE IN PULMONARY HYPERTENSION CASES RELATED TO BENFLUOREX EXPOSURE IN FRANCE

Savale Laurent(1), Chaumais Marie Camille(1), Cottin Vincent(2), Bergot Emmanuel(2), Frachon Irène(2), Prevot Grégoire(2), Pison Christophe(2), Dromer Claire(2), Poubieu Patrice(3), Lamblin Nicolas(3), Habib Gilbert(4), Reynaud-Gaubert Martine(5), Bourdin Arnaud(5), Sanchez Olivier(5), Jais Xavier(5), Sitbon Olivier(5), Montani David(5), Simonneau Gérard(5), Humbert Marc(5)


GENOTYPE TO PHENOTYPE CORRELATIONS IN HERITABLE PULMONARY ARTERIAL HYPERTENSION

Terzi Francesca(1), Palazzini Massimiliano(1), Bachetti Cristina(1), Conficoni Elisa(1), Rizzo Nicole(1), Dardi Fabio(1), Rinaldi Andrea(1), Gotti Enrico(1), Mazzanti Gaia(1), Albini Alessandra(1), Monti Enrico(1), Manes Alessandra(1), Galliè Nazzareno(1)

(1)Institute of Cardiology, University of Bologna ~ Italy

RIGHT VENTRICULO-ARTERIAL COUPLING IN THE ADAPTED AND FAILING RIGHT VENTRICLE IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION

Trip Pia(1), Raamsbeeppers Aniek Jm(1), Kind Taco(1), Westerhof Nico(1), De Man Frances S(1), Vonk Noordegraaf Anton(1)

(1)Department of Pulmonary Medicine, Institute for Cardiovascular Research, VU University Medical Center ~ Amsterdam ~ Netherlands, (2)Department of Pulmonary Medicine and Physiology, Institute for Cardiovascular Research, VU University Medical Center ~ Amsterdam ~ Netherlands
PATHOLOGY AND PATHOBIOLOGY

TOMOGRAPHIC RADIINUCLIDE VENTRICULOGRAPHY IN THE ASSESSMENT OF NONSELECTIVE ENDOTHELIN RECEPTOR ANTAGONIST BOSENATAN INFLUENCE ON RIGHT VENTRICLE PERFORMANCE IN PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION
Arkhipova Olga[1], Martynyuk Tamila[1], Samoilenko Ludmila[1], Sergienko Vladimir[1], Chazova Irina[1]

PULMONARY ARTERY – THE HISTO-PATHOLOGY IN INTERSTITIAL LUNG DISEASE
Balasubramanian Vijay[1], Nicola Catalin[1], Heraque Naveen[1], Sidhu Baljinder[1], Harding Clarke[1]

ROLE FOR MIR-204 IN PULMONARY ARTERIAL HYPERTENSION
Bonnet Sébastien[1]
[1]Pulmonary hypertension research group – Quebec – Canada

DIFFERENTIAL EXPRESSION OF HEPATOCELLARY GROWTH FACTOR (HGF) IN PATIENTS WITH SYSTEMIC SCLEROSIS-ASSOCIATED PULMONARY ARTERIAL HYPERTENSION
Chung Lorinda[1], Cramb Catriona[1], Steen Virginia[1], Zamanian Roham[1]

INHIBITION OF CCL2/MCP-1 BY THE SPIEGELMER MNOX-E36 AMELIORATES EXPERIMENTAL PULMONARY HYPERTENSION
Dahal Bhola Kumar[1], Kosanovic Djuro[1], Vroom Christina[1], Biniek Ewa[1], Ghofrani Hossein Ardeshir[1], Weissmann Norbert[1], Seeger Werner[1], Grimmeliger Friedrich[1], Klussmann Sven[2], Eulberg Dirk[2], Schermuly Ralph Theo[1]
[1]University of Giessen Lung Centre (UGLC), ~ Giessen ~ Germany, [2]NOXXON Pharma AG ~ Berlin – Germany

MITOCHONDRIAL DYSFUNCTION MEDIATES SUSCEPTIBILITY OF RATS WITH LOW INTRINSIC AEROBIC CAPACITY TO HYPOXIA-INDUCED PULMONARY HYPERTENSION
Duggan Nicholas[1], Ciucian Loredana[1], Burton Victoria J[1], Bonneau Olivier[1], Rowlands David[1], Koch Lauren[2], Britton Steve[2], Jarai Gabor[1], Thomas Matthew[1]
[1]Respiratory Disease Area, Novartis Institutes for Biomedical Research, Wimblehurst Road, Horsham, West Sussex, UK [2]Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, USA

NMDA-TYPE GLUTAMATE RECEPTORS ARE INVOLVED IN PULMONARY HYPERTENSION, CONTRIBUTING TO INFLAMMATION AND ENDOTHELIAL CELL DYSFUNCTION
Dumas Sébastien[1], Perros Frédéric[1], Rücker-Martin Catherine[1], Tu Ly[2], Guignabert Christophe[2], Gouadon Elodie[2], Dorfmüller Peter[1], Humbert Marc[2], Cohen-Kaminsky Sylvia[1]

ROLE OF RHO-KINASE PATHWAY IN THE PATHOGENESIS OF PULMONARY ARTERIAL HYPERTENSION
Fukumoto Yoshihiro[1], Shimokawa Hiroaki[1]
[1]Tohoku University Graduate School of Medicine – Sendai – Japan
SODIUM BUTYRATE INHIBITS PDGFBB-INDUCED PROLIFERATION AND MIGRATION IN PULMONARY ARTERY SMOOTH MUSCLE CELLS OF PULMONARY HYPERTENSIVE RATS BY BLOCKING AKT ACTIVATION
Galletti Margherita[1], Cantoni Silvia[1], Zambelli Filippo[1], Tassinari Riccardo[1], Ponti Francesca[1], Galì Nazzaro[1], Ventura Carlo[1]
[1]Institute of Cardiology, University of Bologna – Italy

NOX4-DEPENDENT ACTIVATION OF MTORC2-AKT IS REQUIRED FOR INCREASED PROLIFERATION AND SURVIVAL OF VASCULAR SMOOTH MUSCLE CELLS IN IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION
Goncharov Dmitry[1], Kyrmyskaya Vera[1], Delisser Horace[1], Tudor Rubin[1], Kawut Steven[1], Goncharova Elena[1]

THE ROLE OF THROMBOSPONDIN-1 IN PULMONARY HYPERTENSION
Kaiser Ralf[1], Frantz Christian[1], Gräber Stephan[1], Bals Robert[1], Wilkens Heinrike[1]
[1]University of Saarland – Homburg/Saar – Germany

THE PPAR-BETA AGONIST GW0742 HAS DIRECT PROTECTIVE EFFECTS ON RIGHT HEART HYPERTROPHY
Kojonazarov Baktybek[1], Luitel Himal[1], Sydykov Akybek[1], Dahal Bhola Kumar[1], Paul-Clark Mark[2], Bonvini Sara[2], Reed Anna[2], Mitchell Jane A.[3], Schermuly Ralph Theo[1]

DIFFERENTIAL EFFECTS OF 17BETA-ESTRADIOL (E2) ON FUNCTIONAL ENDPOINTS AND LUNG AND RV CELLULAR SURVIVAL SIGNALING IN SUX416/HYPOXIA (SUHX)-INDUCED PULMONARY HYPERTENSION
Lahm Tim[1], Brown Jordan[1], Albrecht Marjorie[1], Cucci Anthony[1], Cook Todd[1], Van Demark Mary[1], Johnstone Brian[1], Presson Robert[1], Brown Mary Beth[1], Petrache Irina[1]
[1]Indiana University – Indianapolis – USA

PROTEOMIC ANALYSIS IDENTIFIES TRANSLATIONALLY CONTROLLED TUMOR PROTEIN (TCTP) AS A POTENTIAL NOVEL MEDIATOR OF OCCLUSIVE VASCULAR REMODELING IN PULMONARY ARTERIAL HYPERTENSION
Lavoie Jessie[1], Ormiston Mark[2], Perez-IRatxeta Carol[1], Jiang Baohua[1], Courtman David[1], Morrell Nicholas[2], Stewart Duncan[1]

ROLE OF MAST CELLS IN CHRONIC PRESSURE OVERLOAD INDUCED RIGHT VENTRICULAR HYPERTROPHY
Luitel Himal[1], Sydykov Akybek[1], Kojonazarov Baktybek[1], Dahal Bhola Kumar[1], Kosanovic Djuro[1], Janssen Wiebe[1], Seeger Werner[1], Grimminger Friedrich[1], Weissmann Norbert[1], Ghofrani Hossein Ardeschir[1], Schermuly Ralph Theo[1]
[1]Justus-Liebig University Giessen – Germany

RELEVANCE OF CAVeolin-1 EXPRESSION IN PULMONARY HYPERTENSION
Mathew Rajamma[1], Huang Jing[1], Gewitz Michael[1]

NEUREGULIN ATTENUATES RIGHT VENTRICULAR AND PULMONARY ENDOTHELIAL DYSFUNCTION IN AN EXPERIMENTAL MODEL OF PULMONARY HYPERTENSION
Mendes-Ferreira Pedro[1], Maia-Rocha Carolina[1], Adão Rui[1], Cerqueira Rui[1], Mendes Maria[1], Lourenço André[1], De Keulenaer Gilles[1], Leite-Moreira Adelino[1], Brás-Silva Carmen[1]

ROLE OF MIR-21 IN RIGHT HEART HYPERTROPHY AND FIBROSIS
Neumann Julia[1], Janssen Wiebe[1], Kojonazarov Baktybek[1], Döbele Carmen[1], Weissmann Norbert[1], Ghofrani Hossein Ardeschir[1], Grimminger Friedrich[1], Seeger Werner[1], Dimmeler Stefanie[1], Schermuly Ralph Theo[1]
[1]University of Giessen, Giessen Lung Centre – Germany, [2]Institute of Cardiovascular Research, Centre of Molecular Medicine, University of Frankfurt – Germany
NATIONAL BIOLOGICAL SAMPLE AND DATA REPOSITORY FOR PULMONARY ARTERIAL HYPERTENSION
Nichols William[1], Brenton Melinda[1], Lutz Katie[1], Pauciulo Michael[1]
[1]Cincinnati Children’s Hospital Medical Center – Cincinnati – USA

A CROSS-REGULATORY T CELL RESPONSE IN PULMONARY HYPERTENSION
Park Sung-Hyun[1], Chen Wen-Chi[1], Hoffman Carol[1], Gordon Terry[1], Grunig Gabriele[1]
[1]New York University – Tuxedo – United States

MODIFICATION OF HEMODYNAMIC AND IMMUNE RESPONSES TO EXPOSURE WITH A WEAK ANTIGEN BY THE EXPRESSION OF A HYPOMORPHIC BMPR2 GENE
Park Sung-Hyun[1], Chen Wen-Chi[1], Hoffman Carol[1], Marsh Leigh[2], West James[3], Grunig Gabriele[1]

LUNG AND CIRCULATING T AND B CELL REPERTOIRE-BASED IMMUNE SIGNATURES IN PAH
Perros Frédéric[1], Montani David[1], Girerd Barbara[1], Seferian Andrei[1], Dorfmüller Peter[1], Klingelschmitt Isabelle[1], Courtier Anaïs[2], Filipé-Santos Orchideé[1], Parmentier Gilles[1], Perez Solene[2], Simonneau Géraud[1], Humbert Marc[1], Cohen-Kaminsky Sylvain[1]
[1]INSERM UMR S-999, Université Paris-Sud, Labex LERMIT; AP-HP, Centre National de Référence de l’Hypertension Pulmonaire Sévère, DHU TORINO; Hôpital Bicêtre; Centre Chirurgical Marie Lannelongue ~ Le Plessis Robinon ~ France, [2]ImmunID Technologies, Research and Development, ~ Grenoble ~ France

CYTOTOXIC CELLS AND GRANULYSIN IN PULMONARY ARTERIAL HYPERTENSION AND VENO-OCCCLUSIVE DISEASE
Perros Frédéric[1], Cohen-Kaminsky Sylvain[1], Gambaryan Natalia[2], Girerd Barbara[1], Raymond Nicolas[1], Klingelschmitt Isabelle[1], Huertas Alice[1], Mercier Olaf[1], Fadel Elie[1], Simonneau Géraud[1], Humbert Marc[1], Dorfmüller Peter[1], Montani David[1]
[1]Université Paris-Sud; Labex LERMIT, AP-HP; DHU TORINO; Hôpital Bicêtre, INSERM U999; Centre Chirurgical Marie Lannelongue ~ Le Plessis-Robinson ~ France

HARVEST OF PRIMARY PULMONARY ARTERY ENDOTHELIAL CELLS DURING ROUTINE RIGHT HEART CATHETERIZATION
Pollett Jonathan[1], Murali Srinivas[1], Benza Raymond[1], Pappas Orestis[1], Passineau Michael[1]

ALTERATIONS IN PERIPHERAL SKELETAL MUSCLE MICROCIRCULATION THROUGH MICRO RNA DOWNREGULATION CONTRIBUTING TO EXERCISE INTOLERANCE IN PULMONARY ARTERIAL HYPERTENSION
Potus François[1], Malefant Simon[1], Breuil-Bonnet Sandra[1], Bonnet Sébastien[1], Provencher Steeve[1]
[1]Université Laval ~ Québec ~ Canada

IMMUNE/INFLAMMATORY CELLS – PRESENCE AND CONTRIBUTION TO THE PATHOLOGY OF IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION
Pullamsetti Soni Sava[1], Savai Rajkumar[1], Voswinckel Robert[1], Fink Ludger[1], Scheed Axel[1], Ritter Christin[1], Dahal Bhollo Kumar[1], Ghofrani Hossein Ardeschir[2], Weissmann Norbert[1], Klepetko Walter[1], Seeger Werner[2], Griminger Friedrich[2], Schermuly Ralph Theodor[2]

MATRIX METALLOPROTEINASES IN IDIOPATHIC, ANOREXIGEN AND HEREDITARY PULMONARY ARTERIAL HYPERTENSION
Safdar Zeenat[1]
[1]Baylor College of Medicine – Houston – USA

DEFINING THE ROLE OF VASOACTIVE INTESTINAL PEPTIDE (VIP) IN THE PULMONARY CIRCULATION
Said Sami[1]
[1]SUNY Stony Brook, NY ~ Stony Brook ~ United States
INHIBITION OF CA2+/CALMODULIN-DEPENDENT PHOSPHODIESTERASE1A ATTENUATES PRESSURE OVERLOAD-INDUCED RIGHT VENTRICULAR REMODELING AND DYSFUNCTION IN TWO RAT MODELS

Tian Xia[1], Pullamsetti Soni Savaï[2], Kojonazarov Baktybek[3], Sydykov Akylbek[3], Butrous Ghazwan[3], Ghofrani Hossein Ardeschir[3], Weissmann Norbert[4], Grimminger Friedrich[1], Seeger Werner[5], Schlüter Klaus-Dieter[6], Schermuly Ralph Theo[7]


WNT-SIGNALING PATHWAY IN RIGHT VENTRICULAR HYPERTROPHY

Treytn Alexandra[8], Schlüter Klaus-Dieter[9], Janssen Wiebke[10], Ghofrani Hossein Ardeschir[10], Grimminger Friedrich[10], Seeger Werner[10], Schermuly Ralph Theo[10], Pullamsetti Soni Savaï[10]


A CRITICAL ROLE FOR P130CAS IN THE PROGRESSION OF PULMONARY HYPERTENSION IN HUMANS AND RODENTS

Tu Ly[1], De Man Frances[2], Gireud Barbara[3], Huertas Alice[4], Chaumais Marie Camille[4], Lecerf Florence[4], François Charlene[4], Perros Frédéric[4], Dortmuller Peter[4], Fadel Elie[4], Montani David[4], Eddahibi Saadia[4], Humbert Marc[4], Guignabert Christophe[4]


GENETICS AND GENOMICS

GENE EXPRESSION PATTERNS MAY DIFFERENTIATE VASODILATOR-RESPONSIVE PULMONARY ARTERIAL HYPERTENSION FROM NON-RESPONSIVE PULMONARY ARTERIAL HYPERTENSION

Hemnes Anna[1], Trammell Aaron[1], Newman John[1], Robbins Ivan[1], Penner Niki[1], Fox Kelly[1], Wheeler Lisa[1], Austin Eric D[1], Archer Stephen[1], Rich Stuart[1], West James[1]


REGULATORY T LYMPHOCYTES DYSFUNCTION IS NOT LEPTIN-DEPENDANT IN HERITABLE PAH IN CONTRAST TO IDIOPATHIC PAH

Huertas Alice[1], Tu Ly[1], Gireud Barbara[1], Montani David[1], Cohen-Kaminsky Sylvia[1], Guignabert Christophe[1], Humbert Marc[1]

[1]INSERM U999 – Le Plessis-Robinson – France

A GENOME WIDE DNA MICROARRAY ASSOCIATION STUDY AND ASSOCIATION OF TIMP3 GENE POLYMORPHISM IN JAPANESE PATIENTS WITH HIGH ALTITUDE PULMONARY EDEMA

Kobayashi Nobumitsu[1], Hanaoka Masayuki[1], Ota Masao[1], Kinota Fumiya[1], Droma Yunden[1], Ito Michiko[1], Yasuo Masanori[1], Katsuyama Yoshikiko[1], Asamura Hideki[1], Kubo Keishi[1]

[1]Shinshu University School of Medicine – Matsumoto – Japan, [2]Shinshu University Hospital – Matsumoto – Japan
Poster Sessions

TGFβ RECEPTOR GENE VARIANTS IN SYSTEMIC SCLEROSIS RELATED PULMONARY ARTERIAL HYPERTENSION: RESULTS FROM A MULTICENTER EUSTAR STUDY OF EUROPEAN CAUCASIAN PATIENTS
Koumakis Eugenie[1], Wipff Julien[5], Matteucci-Cerinico Marco[6], Riemekasten Gabriella[8], Airo Paolo[9], Cusi Daniele[3], Wichmann H Erich[1], Müller-Ladner Ul[11], Machoyiannopoulos Panayiotis[3], Chiocchia Gilles[1], Allaree Yannick[1]

[1]Rheumatology A Department, Cochin Hospital, INSERM U1016, Institut Cochin, Sorbonne Paris Cité – Paris – France; [2]Rheumatology A department, Cochin Hospital – Paris – France; [3]Department of Rheumatology and Clinical Immunology, Charité University Hospital – Berlin – Germany; [4]Department of Biomedicine & Division of Rheumatology AIOOC, Department of Rheumatology AVC, Department of Medicine & Dentistry centre, University of Florence – Florence – Italy; [5]Rheumatology and Clinical Immunology, Spedali Civili – Brescia – Italy; [6]Department of Medicine, Surgery and Dentistry San Paolo & Genomics and Bioinformatics Platform, Fondazione Filarete, University of Milano – Milan – Italy; [7]Institute of Epidemiology I, Helmholtz Zentrum München - German Research Center for Environmental Health, Neuhérgen, Germany; Institute of Medical Informatics, Biometry and Epidemiology, Chair of Epidemiology, Ludwig-Maximilians-Universität, Munich, Germ; [8]Department of Pathophysiology, Medical School, University of Athens – Athens – Greece; [9]París Descartes University, INSERM U1016, Institut Cochin, Sorbonne Paris Cité – Paris – France; [10]Department of Rheumatology and Clinical Immunology Kierkohff-Klinik, Bad Nauheim – Bad Nauheim – Germany

15-YEARS CLINICAL FOLLOW UP AND NEW GENETIC FINDINGS IN A LARGE FAMILY WITH HEREDITARY PULMONARY ARTERIAL HYPERTENSION
Pfarr Nicole[1], Fischer Christine[1], Hinderhofer Katrin[1], Nagel Christian[2], Ehlenk Nicola[3], Grünig Eikehard[1]

[1]Institute of Human Genetics, University of Heidelberg – Germany; [2]Centre for Pulmonary Hypertension, Thorax clinic – Heidelberg – Germany

PATHWAY ANALYSIS OF THE GENE EXPRESSION IN LUNGS OF PULMONARY HYPERTENSION USING WEB-OPENED MICROARRAY DATA
Sakai Satoshi[1], Maruyama Hidekazu[1], Kimura Taizo[1], Miyauchi Takashi[1], Homma Satoshi[1], Aonuma Kazutaka[1]

[1]University of Tsukuba – Japan

GENOME-WIDE ASSOCIATION ANALYSIS IDENTIFIES ASusceptibility LOCUS FOR PULMONARY ARTERIAL HYPERTENSION
Soubrier Florent[1], Germain Marine[1], Eyries Mélanie[1], Montani David[2], Poirier Odette[1], Girerd Barbara[1], Dorfmüller Peter[1], Coulet Florence[1], Nadaud Sophie[1], Mauguen Svetlana[1], Guingrabet Christophe[1], Carpentier Wasiswa[1], Vonk Noordegraaf Anton[1], Levy Marion[1], Chauvat Arhi[1], Lambert Jean-Charles[1], Bertrand Marion[1], Dupuy Anne-Marie[1], Letyenne Luc[1], Lathrop Mark[1], Amouyel Philippe[1], De Ravel Thomy[1], Delcroix Marion[1], Austin Eric D[1], Robbins Ivan[1], Hennes Anna[1], Loyd James E[1], Rosenzweig Erika[1], Barst Robyn J[1], Chung Wendy[1], Simonneau Gérard[1], Trégouët David Alexandre[1], Humbert Marc[1]

DEFINITIONS AND CLASSIFICATIONS AND PARTICULARITIES OF DIFFERENT PAH SUBGROUPS

METHAMPHETAMINE USE IS COMMON AMONG PATIENTS WITH OTHERWISE IDIOPATHIC PULMONARY HYPERTENSION

Barnett Christopher[1], Wiley Brandon[2], Kobashigawa Erin[3], Oveson Lynn[1], Tarango Nimaljeet[1], De Marco Teresa[1], McClothlin Dana[1]


THE USE OF SEROTONINERGIC ANTIDEPRESSANTS AND THE RISK OF PULMONARY ARTERIAL HYPERTENSION

Fox Benjamin[1], Azoulay Laurent[1], Dell’Aniello Sophie[1], Lapi Francesco[1], Langleben David[1], Suissa Samy[1]


NOVEL INSIGHTS INTO THE MECHANISMS BEHIND INTERFERON INDUCED PULMONARY HYPERTENSION; RELEVANCE OF ET-1 AND IP10

George Peter M[1], Dorfmüller Peter[1], Kirkby Nicholas S[1], Galloway-Phillipps Neil[1], Veselkov Kirill A[1], Southwood Mark[1], Wort Stephen J[1], Alazawi William[1], Foster Graham R[1], Holmes Alan M[1], Schreiber Benjamin E[1], Coghlan John Gerard[1], Morrell Nicholas W[1], Humblet Marc[1], Mitchell Jane A[1]

[1]Cardiothoracic Pharmacology, National Heart and Lung Institute, Imperial College London – UK

A NEW DEFINITION OF PULMONARY HYPERTENSION AT EXERCISE

Hervé Philippe[1], Savale Laurent[1], Artaud-Macari Elise[1], Günther Sven[1], Montani David[1], Chemla Denis[1], Sitbon Olivier[1], Humblet Marc[1], Simonneau Gérard[1]

[1]INSERM U 999, Pulmonary Vascular Disease National Reference Center, Pneumology Department, Bicêtre Hospital, University of Paris South – Le Kremlin Bicêtre – France

ELECTROCARDIOGRAM COULD HELP DISTINGUISH PULMONARY ARTERIAL HYPERTENSION FROM PULMONARY HYPERTENSION DUE TO DIASTOLIC HEART FAILURE

Luknár Milan[1], Lesný Peter[1], Varga Ivan[1], Solík Peter[1], Goncalvesová Eva[1]

[1]National Cardiovascular Institute – Bratislava – Slovakia

POST CAPILLARY PULMONARY HYPERTENSION: NONINVASIVE DIAGNOSIS BY THORACIC ECG-SYNCHRONIZED CT

Sauvage Nancy[1], Reymond Emilie[1], Prieur Marion[1], Jankowski Adrien[1], Pison Christophe[1], Bouvaist Hélène[1], Ferretti Gilbert[1]

[1]Expert Centre for PH, Université J. Fourier – Grenoble – France

PULMONARY ARTERIAL HYPERTENSION IN PATIENTS TREATED WITH INTERFERON

Savale Laurent[1], Günther Sven[1], Chaumais Marie Camille[1], Sattler Caroline[1], Artaud-Macari Elise[1], Perrin Swanny[1], Jais Xavier[1], Montani David[1], Humbert Marc[1], Simonneau Gérard[1], Sitbon Olivier[1]

Pathophysiology (Focusing on Exercise and RV)

EVALUATION OF PULMONARY VASCULAR RESISTANCE DURING EXERCISE IN PATIENTS WITH PULMONARY HYPERTENSION
  Almeida Ana¹, Lopes Liliana¹, Loureiro Maria¹, Cotrim Carlos¹, Marques Jorge¹, Repolho Debora¹, Pereira Hélder¹
  [¹Hospital Garcia de Orta – Amadora – Portugal]

ECHOCARDIOGRAPHIC ASSESSMENT OF RIGHT VENTRICULAR CONTRACTILE RESERVE IN PATIENTS WITH PULMONARY HYPERTENSION
  Almeida Ana¹, Lopes Liliana¹, Loureiro Maria¹, Cotrim Carlos¹, Cruz Inês¹, Stuart Bruno¹, Caldeira Daniel¹, Pereira Hélder¹
  [¹Hospital Garcia de Orta – Amadora – Portugal]

AN IMPROVED FORMULA FOR ESTIMATING RIGHT VENTRICULAR STROKE WORK IN PULMONARY HYPERTENSION
  Chemla Denis¹, Castelain Vincent¹, Kaixian Zhu¹, Papelier Yves¹, Creuze Nicolas¹, Hoette Susan¹, Parent Florence¹, Simonneau Gérald¹, Humbert Marc¹, Hervé Philippe¹
  [¹Université Paris Sud-Faculté de Médecine – Kremlin Bicêtre – France]

THE COMPONENTS OF PULMONARY ARTERY PRESSURE ARE MATHEMICALLY RELATED THROUGH A GEOMETRIC PROGRESSION IN PULMONARY HYPERTENSION
  Chemla Denis¹, Castelain Vincent¹, Simonneau Gérald¹, Humbert Marc¹, Hervé Philippe¹
  [¹Université Paris Sud, Faculté de Médecine – Kremlin Bicêtre – France]

PROGNOSTIC VALUE OF RIGHT VENTRICULAR EJECTION FRACTION USING CONVENTIONAL PLANAR EQUILIBRIUM RADIONUCLIDE ANGIOGRAPHY IN PULMONARY ARTERIAL HYPERTENSION
  Cottin Vincent¹, Courand Pierre-Yves¹, Khoucha Chahéra¹, Pina-Jomir Ardescir¹, Scheiber Christian¹, Traclet Julie¹, Dib Alfred¹, Blanchet Anne-Sophie¹, Derumeaux Geneviève¹, Gierant Jean-Charles¹, Turquier Ségolène¹, Humbert Marc¹, Simonneau Gérald¹, Cordier Jean-François¹
  [¹University of Lyon – France, ²University of Paris – France]

ROLE OF NOTCH SIGNALING IN PULMONARY HYPERTENSION
  Dabral Swati¹, Pullamsetti Soni Savi¹, Lang Michaela¹, Ghofrani Hossein Ardeschir², Weissmann Norbert², Grimminger Friedrich², Seeger Werner², Schermuly Ralph Theodor²
  [¹Max-Planck-Institute for Heart and Lung Research – Bad Nauheim – Germany, ²University of Giessen and Marburg Lung Center – Giessen – Germany]

PROGNOSTIC UTILITY OF RIGHT VENTRICULAR SYSTOLIC STRAIN MEASUREMENT BY SPECKLE-TRACKING ECHOCARDIOGRAPHY FOR THE EVALUATION OF PULMONARY HYPERTENSION
  Fine Nowell¹, Chen Libo¹, Franz Robert¹, Pellikka Patricia¹, Kane Garvan¹
  [¹Mayo Clinic – Rochester – USA]

ASSESSMENT AND PROGNOSTIC RELEVANCE OF RIGHT VENTRICULAR CONTRACTILE RESERVE IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
  Grüning Ekkehard¹, Tiede Henning¹, Enyimagay Esi Otuwa¹, Ehlken Nicola¹, Seyfarth Hans-Jürgen¹, Bossone Eduardo², D’Andrea Antonello³, Naeije Robert³, Olschewski Horst³, Nagel Christian³, Halank Michael³, Fischer Christine³
  [¹University of Heidelberg – Germany, ²University of Giessen – Germany, ³University of Leipzig – Germany, ⁴University of Salerno – Italy, ⁵Second University of Naples – Italy, ⁶University of Brussels – Belgium, ⁷University of Graz – Austria, ⁸University of Dresden – Germany]
EFFECT OF EXERCISE ON PULMONARY HEMODYNAMICS IN BREATHLESS PATIENTS WITH OR WITHOUT PULMONARY HYPERTENSION
Imran Muhammad[1], Keoghi Anne Mi[1], Kofyar Eugene[1], Corrigan Carolyn[1], Prichard Rose[1], Hayward Christopher[1], Macdonald Peter[1]
[1]St. Vincent’s Hospital – Sydney – Australia

AIRWAY MUCOSAL BLOOD FLOW IN PULMONARY ARTERIAL HYPERTENSION
Karlóca Kristóf[1], Csósz Györgyi[1], Kis Adrián[1], Toth Laura Andrea[1], Losonczy Györgyi[2], Mendes Eliana S[2], Wanner Adam[2], Horváth Gábor[1]
[1]Semmelweis University – Budapest – Hungary, [2]Division of Pulmonary, Critical Care and Sleep Medicine, University of Miami – United States

ECOCARDIOGRAPHY IN EARLY DETECTION OF RIGHT HEART DYSFUNCTION IN DIFFERENT LOADING CONDITIONS
Kovačević-Preradović Tamara[1], Vujisić-Tesić Bosiljka[1], Lovric Milica[1], Preradović Milan[1], Jakovlević Bilijana[1], Trminic Dijana[1], Kozic Marijo[1], Janić Zoran[1], Srdic Svetozar[1]

TRANSVERSE DISPLACEMENT: A NOVEL ECOCARDIOGRAPHIC PARAMETER DESCRIBING RIGHT VENTRICULAR FUNCTION IN PULMONARY HYPERTENSION
Kovács Attila[1], Peluso Diletta[1], Muraru Denis[1], Perazzolo Marra Martina[1], Badano Luigi P[1], Dal Bianco Lucia[1], Segafredo Beatrice[1], Illiceto Sabino[1]
[1]Heart Center, Semmelweis University – Budapest – Hungary, [2]Department of Cardiac, Thoracic and Vascular Sciences, University of Padua – Italy

CHARACTERIZATION OF A NOVEL PARAMETER OF RIGHT VENTRICULAR FUNCTION BY SPECKLE TRACKING ECOCARDIOGRAPHY IN HEALTHY SUBJECTS
Kovács Attila[1], Peluso Diletta[1], Muraru Denis[1], Ermacora Davide[1], Badano Luigi P[1], Dal Bianco Lucia[1], Zoppellaro Giacomo[1], Illiceto Sabino[1]

INSPIRATORY MUSCLE DYSFUNCTION DURING EXERCISE IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Laveneziana Pierantonio[1], Garcia Gilles[1], Joureau Barbara[1], Jais Xavier[1], Montani David[1], Sitbon Olivier[1], Simonneau Gérard[1], Similowski Thomas[1], Humbert Marc[1]

CIRCADAPT: A COMPREHENSIVE IN SILICO SIMULATION TOOL FOR RESEARCH AND EDUCATION IN PULMONARY HYPERTENSION-RELATED CARDIAC PATHOPHYSIOLOGY
Lumens Joost[1], Reesink Koen D[1], Koeken Yvette[1], Brunner-La Rocca Hans-Peter[2], Van Paassen Pieter[2], Arts Theo[2], Delhaas Tammo[2]
[1]Maastricht University Medical Center, Cardiovascular Research Institute Maastricht (CARIM) – Maastricht – Netherlands

PREDICTORS OF EXERCISE ABNORMALITIES IN PATIENTS REFERRED FOR PULMONARY HYPERTENSION EVALUATION: COMPARISON OF EXERCISE ECOCARDIOGRAPHY WITH RIGHT HEART CATHETERIZATION
Misra Deepika[1], Gujja Karthik[1], Sulica Roxana[1]
[1]Beth Israel Medical Center – New York – United States
Poster Sessions

BREATHING EFFICIENCY MEASURED DURING SIX MINUTE WALK TEST PREDICTS DISEASE SEVERITY IN PULMONARY ARTERIAL HYPERTENSION
Morris Norman[1], Seale Helen[2], Harris Julie[2], Hall Kathleen[2], Kermeen Fiona[2]


THE ADDITION OF CARDIOPULMONARY MEASUREMENTS TO A SIX MINUTE WALK TEST DIFFERENTIATES PULMONARY ARTERIAL HYPERTENSION PATIENTS ON MONO VS DUAL VS TRIPLE THERAPY
Morris Norman[1], Seale Helen[2], Harris Julie[2], Hall Kathleen[2], Kermeen Fiona[2]


REFERENCE VALUES FOR RIGHT VENTRICULAR GEOMETRY AND FUNCTION BY THREE-DIMENSIONAL ECHOCARDIOGRAPHY: A MULTI-CENTER STUDY OF 533 HEALTHY VOLUNTEERS
Muraru Denisa[1], Gripari Paola[2], Esposito Roberta[3], Ermacora Davide[1], Tamborini Gloria[3], Galderisi Maurizio[3], Santoro Ciro[3], Maffessanti Francesco[1], Pepi Mauro[1], Badano Luigi P[1]


SUBMAXIMAL EXERCISE TESTING FOR PULMONARY ARTERIAL HYPERTENSION: UTILIZATION OF NEW TECHNOLOGY
Neal Jennifer[1], Lee Augustine[1], Burger Charles[1]


IMPAIRMENT OF RIGHT ATRIAL MECHANICS AND FUNCTION IN PULMONARY HYPERTENSION PATIENTS ASSESSED BY 2D-SPECKLE TRACKING AND THREE-DIMENSIONAL ECHOCARDIOGRAPHY
Peluso Diletta[1], Kovács Attila[1], Dal Bianco Lucia[1], Muraru Denisa[2], Perazzolo Marra Martina[1], Sarais Cristiano[2], Badano Luigi P[1], Illiceto Sabino[1]


CHARACTERIZATION OF RIGHT ATRIAL MECHANICS BY 2D-SPECKLE TRACKING ECHOCARDIOGRAPHY IN HEALTHY SUBJECTS
Peluso Diletta[2], Kovács Attila[1], Dal Bianco Lucia[1], Muraru Denisa[2], Cucchini Umberto[1], Badano Luigi P[1], Illiceto Sabino[1]


RA VOLUMES AND PHASIC FUNCTION BY 3-DIMENSIONAL ECHOCARDIOGRAPHY IN HEALTHY SUBJECTS
Peluso Diletta[2], Kovács Attila[1], Dal Bianco Lucia[1], Muraru Denisa[2], Padayattil Seena[2], Badano Luigi P[2], Illiceto Sabino[2]

[1] Heart Center, Semmelweis University – Budapest – Hungary, [2] Department of Cardiac, Thoracic and Vascular Sciences, University of Padua – Italy

RIGHT VENTRICULAR FUNCTION ANALYSIS IMPROVE PERFORMANCE OF ECHOCARDIOGRAPHY TO SCREEN PULMONARY HYPERTENSION
Potton Leila[1], Bouvaist Hélène[1], Saunier Carole[1], Saint Raymond Christel[1], Jondot Marie[1], Vanzetto Gerald[1], Pison Christophe[1]

[1] University of Grenoble – France

RIGHT VENTRICULAR DIASTOLIC STIFFNESS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Rain Silvia[1], Van Der Velden Jolanda[1], Ottenheijm Coen[1], Handoko M. Louisi[1], Granzier Henk[1], Westerhof Nico[1], Dos Remedios Cris[1], Humbert Marc[1], Dorfmüller Peter[1], Guignabert Christophe[1], Vanhorebeek Eddy[1], De Man Frances[1]


ROCKING RIGHT VENTRICLE
Seaton David[1], Shearer Belinda[2], Aldridge Kam[3], Kermeen Fiona[1]

Poster Sessions

AN ECHOCARDIOGRAPHIC SNAPSHOT OF RIGHT VENTRICULAR DYSFUNCTION
Seaton David[1], Shearer Belinda[1], Aldridge Kam[1], Kermeen Fiona[1]

RIGHT VENTRICULAR STRAIN IN THE ROCKING RIGHT VENTRICLE
Seaton David[1], Shearer Belinda[1], Aldridge Kam[1], Kermeen Fiona[1], Chan Jonathan[1], Yamada Akira[1]
[1]Queensland Nuclear Imaging, The Prince Charles Campus – Brisbane – Australia

SKELETAL MUSCLE DYSFUNCTION IN IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION
Shadly Ahmed Samar[1], Granton John[1], Batt Jane[1]
[1]University of Toronto – Canada

GENETIC VARIATION IN SEX HORMONE PATHWAYS AND THEIR RELATIONSHIP TO RIGHT VENTRICULAR FUNCTION: THE MESA-RIGHT VENTRICLE STUDY
Ventetuolo Corey[1], Mitra Nandita[2], He Jiwei[2], Wan Fei[2], Barr R. Graham[3], Bluemke David[4], Lima Joao[5], Ouyang Pamela[5], Kawut Steven[2]

FOUR-MINUTE STEP TEST: A POTENTIAL TEST FOR PAH PATIENTS?
Vieira Machado Ferreira Eloara[1], Melatto Thaís[1], Almeida Melline[1], Acedo Adriano[1], Ramos Roberta[1], Arakaki Jaquelina[1]
[1]Federal University Of Sao Paulo – Brazil

PREDICTORS OF PULMONARY ARTERIAL HYPERTENSION CLINICAL WORSENING USING RECUMBENT EXERCISE STRESS ECHOCARDIOGRAPHY
Wirth Joel[1], Godara Geeta[1], Rancourt David[1], Hacopian Melkari[1], Cohen Mylan[1]
[1]Tufts University School of Medicine – Portland, ME – United States

INAPPROPRIATE INCREASE OF PULMONARY ARTERY PRESSURE BY EXERCISE FOR THE EARLY DIAGNOSIS OF PULMONARY HYPERTENSION ASSOCIATED WITH CONNECTIVE TISSUE DISEASES
Yamasaki Yoshioki[1], Yamada Hidehiro[1], Suzuki Kengo[1], Akashi Yoshihiro[1], Tsuchida Kosei[1], Ozaki Shoichi[1]
[1]St. Marianna University School of Medicine – Kawasaki – Japan

IS PERTURBED PULSE WAVE VELOCITY IN SYSTEMIC ARTERIES PRESENT IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION?
Yang Eric[1], Nambi Vijay[1], Frost Adaani E[1]
[1]Baylor College of Medicine – Houston – United States
EPIDEMIOLOGY AND REGISTRIES

BASELINE FUNCTIONAL, ECHOCARDIOGRAPHIC AND HEMODYNAMIC PARAMETERS OF INCIDENT PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION AT A GREEK EXPERT CENTER

Anthi Anastasia[1], Tsangaris Iraklis[1], Rallidis Loukianos[2], Pappas Athanasios[2], Konstantonis Dimitrios[2], Frantzeskaki Frantzeska[3], Triantafyllidi Helen[1], Lekakis John[3], Armanagidis Apostolos[1], Orfanos Stylianos E.[1]

[1]2nd Department of Critical Care, Pulmonary Hypertension Clinic, University of Athens, Medical School, Attikon General Hospital – Athens – Greece, [2]2nd Department of Cardiology, Pulmonary Hypertension Clinic, University of Athens, Medical School, Attikon General Hospital – Athens – Greece

REGISTRY AND PROGNOSIS STUDY IN KOREAN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION

Chung Namsik[1], Jung Jin Won[2], Park Jong Chun[3], Chae Shung Chull[4], Kim Kee-Sik[5], Sohn Dae-Won[6], Chang Kyoung-Sig[7], Kim Dong Soo[8], Yun Ho-Joong[9], Park Jeong Bae[10], Rim Se-Joong[11], Jung Hae Ok[12], Chung Wook-Jin[13], Choi Eui-Young[14], Seo Hye-Sun[15], Cho Dong-Soo[16]


PULMONARY ARTERIAL HYPERTENSION IN ARGENTINA IN HINPULSAR REGISTRY: EPIDEMIOLOGY, CLINICAL PROFILE AND MANAGEMENT

Coronel Maria[1], Perna Eduardo[1], Echazarreta Diego[1], Lema Luis[1], Aristimuño Guillermo[2], Garcia Brasca Daniela[2], Botta Cristian[2], Curro Maria[2], Echazarreta Andres[2], Lescano Adrian[2]


CHANGES IN THE PATTERNS OF REFERRAL TO PULMONARY HYPERTENSION CENTERS

Glen Clarisse[1], Sulica Roxana[1]

[1]Beth Israel Medical Center – New York – United States

SURVIVAL IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION IN THE NORTHWEST REGISTER OF RUSSIA

Goncharova Natalia[1], Kazimli Aygun[1], Najmushin Alexander[1], Kozlova Svetlana[1], Moiseeva Olga[1]


IMPROVED SURVIVAL IN SYSTEMIC SCLEROSIS-ASSOCIATED PULMONARY ARTERIAL HYPERTENSION PATIENTS ENROLLED IN THE PULMONARY HYPERTENSION ASSESSMENT AND RECOGNITION OF OUTCOMES IN SCLERODERMA (PHAROS) REGISTRY

Gordon Jessica[1], Huang Wei-Ti[2], Horn Evelyn[2], Steen Virginia[2]


PULMONARY HYPERTENSION ASSESSMENT AND RECOGNITION OF OUTCOMES IN SCLERODERMA (PHAROS): PREDICTIVE FACTORS IN THE DEVELOPMENT OF PULMONARY HYPERTENSION IN A HIGH RISK POPULATION WITH SYSTEMIC SCLEROSIS (SSC)

Hsu Vivien[1], Steen Virginia[2]

Poster Sessions

Thursday, February 28

5th WORLD SYMPOSIUM ON PULMONARY HYPERTENSION

PULMONARY HYPERTENSION ASSOCIATED WITH RHEUMATIC DISEASES: BASELINE CHARACTERISTICS FROM THE KOREAN REGISTRY
Jeon Chan Hong1, Lee Shin-Seok2
1Soochunhyang University School of Medicine – Bucheon – Korea, Republic of, 2Department of Rheumatology, Chonnam National University Medical School and Hospital

PHYSICIAN MONITORING OF PULMONARY ARTERIAL HYPERTENSION SUBJECTS: RESULTS FROM A LARGE U.S. HEALTH INSURANCE CLAIMS DATABASE
Joish Vijay1, Muccino David1, Golick Mark1, Minai Omar2
1Bayer HealthCare – Wayne – United States, 2Pulmonary, Allergy and Critical Care Medicine, Cleveland Clinic – Cleveland – United States

ANALYSIS OF LONG-TERM SURVIVAL IN PATIENTS FOLLOWED UP IN A UNIT OF PULMONARY HYPERTENSION
López Reyes Raquel1, Ballester Marta1, Menendez Maria Angeles1, Fandos Maria Jose1, Ansotegui Emilio1, Nauffal Dolores1
1University Hospital La Fe – Valencia – Spain

THE PULMONARY HYPERTENSION REGISTRY IN THE PHILIPPINES: RESULTS FROM THE PHILIPPINE HEART CENTER -CENTER FOR PULMONARY VASCULAR DISORDERS
Mateo Maria Paz1
1Philippine Heart Center – Quezon City – Philippines

PULMONARY HYPERTENSION AND ASSOCIATIONS IN ARGENTINA: RESULTS OF HINPULSAR REGISTRY
Perna Eduardo1, Coronel Maria1, Echazarreta Diego2, Lobo Marquez Lilia2, Haurigot Pilar2, Fleitas Paez Maximiliano2, Toldo Cristian2, Ruffino Gustavo2, Pereiro Stella1, Macin Stella1
1Instituto de Cardiología J. F. Cabral – Corrientes – Argentina, 2Hospital San Juan de Dios – La Plata – Argentina, 3Heart Failure and Pulmonary Hypertension Committee, Argentinean Federation of Cardiology – Argentina

FUNCTIONAL CLASS AND FIRST-LINE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION IN THE SPANISH REGISTRY ON PULMONARY ARTERIAL HYPERTENSION (REHAP)
Roman Antonio1, Barbera Joan Albert1, Morales Pilar1, Lopez-Meseguer Manuel1, Elias L1, Molina Luis1, Escribano Pilar1
1Hospital Vall d’Hebron – Barcelona – Spain, 2Hospital Clinic – Barcelona – Spain, 3Hospital La Fe – Valencia – Spain, 4Hospital Universitario Virgen del Rocio – Sevilla – Spain, 5Hospital del Mar – Barcelona – Spain, 6Hospital Universitario 12 de Octubre – Madrid – Spain

THE SWEDISH NATIONAL REGISTRY FOR PULMONARY ARTERIAL HYPERTENSION
Selimovic Nedim1, Jansson Kjell1, Kornhall Bjorn1, Lövdén Ekremhag Bjorn1, Larsen Flemming1, Wikström Gerhard1, Söderberg Stefan1
1Sahlgrenska University Hospital – Gothenburg – Sweden, 2University Hospital – Linköping – Sweden, 3Skåne University Hospital – Lund – Sweden, 4Norrtälje Hospital – Stockholm – Sweden, 5Karolinska University Hospital – Stockholm – Sweden, 6Akademiska Hospital – Uppsala – Sweden, 7Norrlands University Hospital – Umeå – Sweden

EPIDEMIOLOGY OF PULMONARY ARTERIAL HYPERTENSION IN LATVIA
Skride Andris1, Rudzitis Ainars1, Akermane Renate1, Viksne Sigita1
1Riga Stradiņa University – Riga – Latvia, 2University of Latvia – Riga – Latvia

PULMONARY ARTERIAL HYPERTENSION (PAH) HAS A GLOBAL IMPACT ON PATIENTS & CAREGIVERS: RESULTS FROM US POPULATION BASED QUALITATIVE INTERVIEWS AND QUANTITATIVE SURVEYS
Studer Sean1, Alrighetti Rino1, Chen Hubert1, McCollister Deborah1, Mullen Mary1, Park Myung1, Lombardi Sandral1, Fischer Aryeh1
1Newark Beth Israel Medical Center – Newark – United States, 2PH Association-US – Silver Spring – USA, 3University of California San Francisco – United States, 4University of Colorado Denver – USA, 5Boston Children’s Hospital – Boston – USA, 6University of Maryland – Baltimore – USA, 7University of California San Diego – United States, 8National Jewish Health – Denver – USA
CHARACTERISTICS AND OUTCOME OF PATIENTS WITH PRE-CAPILLARY PULMONARY HYPERTENSION WHO WERE DRAINED FOR TAMPOANDE: A MONOCENTRIC STUDY

Artaud-Macari Elise [1], Montani David [1], Mercier Olaf [1], Persichini Romain [1], Günther Sven [1], Jais Xavier [1], Parent Florence [1], Simonneau Gérald [1], Humbert Marc [1], Sitbon Olivier [1], Savale Laurent [1]


EXPERT CONSENSUS FOR PERFORMING RIGHT HEART CATHETERIZATION IN SUSPICION OF PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH SYSTEMIC SCLEROSIS: A DELPHI CONSENSUS STUDY WITH CLUSTER ANALYSIS FROM THE EPOSS GROUP

Avouac Jerome [1], Huscher Dörte [2], Furst Daniel [3], Distler Oliver [4], Yannick Allanore [1]


DYNAMIC CONTRAST-ENHANCED COMPUTED TOMOGRAPHY BASED DETERMINATION OF CARDIAC OUTPUT

Bálint Zoltán [1], Pienn Michael [1], Kovacs Gabor [1], Tscherner Marial [1], Johnson Thorsten R. [2], Kullnig Peter [1], Stollberger Rudolf [3], Olschewski Andrea [1], Olschewski Horst [1]


THE SUBMAXIMAL HEART AND PULMONARY EVALUATION (SHAPE) IS A NOVEL, NONINVASIVE TEST TO IDENTIFY PULMONARY HYPERTENSION IN PATIENTS WITH SCLERODERMA

Bernstein Elana [1], Gordon Jessica [1], Spiera Robert [1], Mandl Lisa [1], Horn Evelyn [1]


ECHOCARDIOGRAPHIC SPECKLE TRACKING STRAIN OF THE RIGHT VENTRICLE CAN PREDICT SUCCESS TO PULMONARY VASODILATORS THERAPY IN PAH PATIENTS

Bouchra Lamia [1], Molano Carlos [1], Viaucoroze Catherine [1], Cuvelier Antoine [1], Muir Jean-François [1]

[1] University of Rouen – France

PATIENTS WITH SYSTEMIC SCLEROSIS AND EXERCISE-INDUCED INCREASE IN PULMONARY ARTERY PRESSURE: AN EARLY SIGN OF DISEASE?

Carignola Renato [1], Data Valeria [1], Destefanis Paola [2], Bianco Matteo [2], Chirio Claudio [2], Montabone Erika [2], Pozzi Roberto [2], Albaira Carlo [1]


PULMONARY HYPERTENSION IN BRONCHO-PULMONARY DISPLASIA: CLINICAL FINDINGS, ASSOCIATED CARDIOVASCULAR ANOMALIES AND OUTCOME

Cerro Marín María Jesús Del [1], Sabaté Rotés Anna [1], Cartón Antonio [1], Deiros Lucia [1], Bres-Zurita Montserrat [1], Barrio Maria Isabel [1], Albajara Luis [1], Menendez Juan José [1], Gutierrez-iarraya Federico [1]

[1] La Paz Children’s Hospital – Madrid – Spain

CARDIAC MAGNETIC RESONANCE-DERIVED RIGHT VENTRICULAR OUTFLOW TRACT SYSTOLIC FLOW ACCELERATION: A NOVEL INDEX OF RIGHT VENTRICULAR FUNCTION AND PROGNOSIS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION

Chang Hyuk-Jae [1], Kang Ki-Woon [1]

ECHOCARDIOGRAPHIC ASSESSMENT OF PULMONARY VASCULAR RESISTANCE IN SEVERE PULMONARY HYPERTENSION
Chang Sung-A1, Byeon Kyeong Min1, Kim Hyung Kwan2, Park Seung Woo3, Kim Duk Kyung1
1Samsung Medical Center, Sungkyunkwan University College of Medicine – Seoul – Korea, Republic of, 2Seoul National University Hospital – Seoul – Korea, Republic of

RIGHT VENTRICULAR DYSFUNCTION AND PULMONARY OBSTRUCTION INDEX BY CT PULMONARY ANGIOGRAPHY AS A PREDICTOR OF PATIENT OUTCOME
Chaosuwannakit Narumol1, Makarawate Pattarapong1
1Khon Kaen University – Khon Kaen – Thailand

PROGNOSTIC VALUE OF EXERCISE CARDIAC INDEX AND RIGHT VENTRICULO-ARTERIAL COUPLING IN IDIOPATHIC, FAMILIAL AND ANOREXIGEN-ASSOCIATED PULMONARY ARTERIAL HYPERTENSION
Chaouat Ari1, Ponçot-Mongars Raphaelle1, Guillaume Anne2, Gomez Emmanuelle1, Malvestio Pascale1, Selton-Suty Christine2, Regent Denis2, Provencer Steeve2, Sibton Olivier1
1Service des Maladies Respiratoires & Réanimation Respiratoire, CHU-Nancy/Université de Lorraine – Nancy – France, 2Cardiologie Adultes, CHU-Nancy/Université de Lorraine – Nancy – France

COMPARISON OF INCIDENT PATIENTS WITH PULMONARY HYPERTENSION AND RISK FACTORS FOR LEFT HEART DISEASE ACCORDING TO THEIR HAEMODYNAMIC PROFILE: A RETROSPECTIVE STUDY
Charalampopoulos Athanasios1, Howard Luke1, Davies Rachel3, Gin-Sing Wendy1, Tzoulaki Ioanna1, Wilkins Martin1, Gibbs Simon1
1Imperial Healthcare NHS Trust-Imperial College – London – United Kingdom

THE PHENOTYPES OF INCIDENT PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION ACCORDING TO THE PRESENCE OF CARDIOVASCULAR RISK FACTORS: A RETROSPECTIVE STUDY
Charalampopoulos Athanasios1, Howard Luke1, Davies Rachel3, Gin-Sing Wendy1, Tzoulaki Ioanna1, Wilkins Martin1, Gibbs Simon1
1National Pulmonary Hypertension Service, Hammersmith Hospital and Imperial College of Medicine, London – United Kingdom

THE SIGNIFICANCE OF TRICUSPID VALVE REGURGITATION IN PATIENTS DIAGNOSED WITH PULMONARY ARTERIAL HYPERTENSION
Chen Libo1, Larsen Carolyn1, Le Rachel1, McGoon Michael1, Frantz Robert1, Kane Garvan1
1Mayo Clinic – Rochester – United States

A PROOF OF CONCEPT FOR EXHALED AIR ANALYSIS USING NANO ARTIFICIAL NOSE (NA-NOSE) IN PULMONARY ARTERIAL HYPERTENSION
Cohen-Kaminsky Sylvia1, Nakhle Morad2, Montani David1, Girerd Barbara1, Garcia Gilles1, Simonneau Gérald1, Haick Hossam3, Humbert Marc1
1INSERM UMR S-999, Université Paris-Sud, Labex LERMIT; AP-HP, Centre National de Référence de l’Hypertension Pulmonaire Sèvère, DHU TORINO; Hôpital Bicêtre; Centre chirurgical Marie Lannelongue – Le Plessis Robinson – France, 2The Department of Chemical Engineering and Russell Berrie Nanotechnology Institute, Technion, Israel Institute of Technology – Haifa – Israel

MEASUREMENT OF END-TIDAL CO2 PARTIAL PRESSURE DURING EXERCISE SHOWS EARLY PULMONARY ARTERIAL HYPERTENSION IN SCLERODERMA PATIENTS
Dumitrescu Daniel1, Viethen Thomas1, Gerhardt Felix2, Moinizadeh Pia2, Hunzelmann Nicolas2, Rosenkranz Stephan1
1Herzzentrum der Universität zu Köln – Cologne – Germany, 2Universitätsklinikum Köln, Klinik fuer Dermatologie und Venerologie – Cologne – Germany
**COMPUTED TOMOGRAPHY IN SCHISTOSOMOTIC PULMONARY ARTERIAL HYPERTENSION**
Ferreira Rita[1], Almeida Milena[2], Mertens Alessandra[2], Bandeira Angela[2], Domingues Ana Lucia[2], Silveira Carlos[2], Leite Luiz[1], Pereira Clara[1]

**WHICH PATIENT WITH UNEXPLAINED DYSPONEA NEEDS A RIGHT HEART CATHETER?**
Fowler Robin[2], Gain Kevin[1], Gabbay Eli[1]
[1]Royal Perth Hospital, Lung Institute of Western Australia, University of Western Australia – Perth – Australia, [2]Edith Cowan University, Lung Institute of Western Australia, University of Western Australia, University of Western Australia, Curtin University, Notre Dame University, Heart and Lung Transplant Foundation of Western Australia – Perth – Australia

**SCREENING OF PULMONARY HYPERTENSION BY DOPPLER ECHOCARDIOGRAPHY IN RENAL TRANSPLANT CANDIDATES**
Gazzana Marcelo[1], Ribeiro Adriana[2], Knorst Marli[1], Manfro Roberto[1]
[1]Pulmonology Department, Hospital de Clinicas de Porto Alegre – Porto Alegre – Brazil, [2]Nephrology Department, Hospital de Clinicas de Porto Alegre – Porto Alegre – Brazil

**END-STAGE SICKLE CELL DISEASE (SCD)-ASSOCIATED PULMONARY HYPERTENSION (PH) IS CHARACTERIZED BY ABNORMAL CELLULAR, MECHANICAL AND Vaso-ACTIVE PROFILES**
George Patricia[1], Yao Mingyi[1], Ahmad Ferhaan[1], Sembrat John[1], Rajkumar Revathi[1], Novelli Enrico[1], Stenmark Kurt[1], Gladwin Mark[1], Champion Hunter[1], Isenberg Jeffrey[1]

**RIGHT VENTRICULAR REMODELING IN IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION ASSESSED WITH THREE-DIMENSIONAL ECHOCARDIOGRAPHY AND CARDIAC MAGNETIC RESONANCE: THE ROLE OF MASS REGRESSION AND REDUCTION OF EJECTION FRACTION AS PROGNOSTIC MARKERS?**
Grapsa Julia[1], Cabrita Ines Zimbarral[1], Durighel Giuliana[2], Dawson David[1], O’Regan Declan[1], Howard Luke[2], Nihoyannopoulos Petros[1], Gibbs Simon[1]

**IMPAIRED HEMODYNAMIC RESPONSE DURING DOBUTAMINE STRESS IS RELATED TO A LOWER CARDIOVASCULAR RESERVE IN PULMONARY ARTERIAL HYPERTENSION**
Grignola Juan[1], Aguilar Rio[1], Roman Antonio[1], Bouletjda Nadia[1], Domingo Enric[1]

**REFERENCE VALUES AND DETERMINING FACTORS OF RIGHT ATRIAL AREA IN HEALTHY ADULTS BY TWO-DIMENSIONAL ECHOCARDIOGRAPHY**
Grüning Ekkehard[1], Henn Philipp[1], D’Andrea Antonello[1], Claussen Martin[1], Ehiken Nicola[1], Maier Felicitas C[1], Naeije Robert[1], Nagel Christian[1], Prange Felix[1], Weidenhammer Johannes[1], Fischer Christine[1], Bossone Eduardo[1]

**MOLECULAR IMAGING OF THE HUMAN PULMONARY CIRCULATION USING A RADIONABELED ADRENOMEDULLIN DERIVATIVE**
Harel François[1], Levac Xavier[1], Nguyen Quang Trinh[1], Letourneau Myriam[1], Marcil Sophie[1], Finnerty Vincent[1], Fournier Alain[1], Dupuis Jocelyn[1]
Poster Sessions

Thursday, February 28

PREDICTING CLINICAL DETERIORATION IN PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION (IPAH)

Harrison Anne-Marie\(^1\), Gabbay Eli\(^2\), Hannon Tara\(^3\), Playford David\(^4\)

\(^1\)University of Notre Dame – Perth – Australia, \(^2\)Respiratory West – Perth – Australia

CLINICAL CHARACTERIZATION AND SURVIVAL OF PATIENTS WITH BORDERLINE ELEVATION IN PULMONARY ARTERY PRESSURE

Heresi Gustavo\(^1\), Minai Omar\(^1\), Tonelli Adriano\(^1\), Hammel Jeffrey\(^1\), Farha Samar\(^1\), Parambil Joseph\(^1\), Dweik Raed\(^1\)

\(^1\)Cleveland Clinic – Cleveland – United States

PULMONARY HYPERTENSION IN ANTISYNTHETASE SYNDROME: PREVALENCE, ETIOLOGY AND OUTCOME

Hervier Baptiste\(^1\), Meyer Alain\(^1\), Dieval Céline\(^1\), Uzunhan Yurdagul\(^1\), Devilliers Hervé\(^1\), Launay David\(^1\), Canuet Matthieu\(^1\), Tétu Laurent\(^1\), Agard Christian\(^1\), Sibilia Jean\(^1\), Hamidou Mohamed\(^1\), Amoura Zahir\(^1\), Nunes Hilario\(^1\), Benveniste Olivier\(^1\), Montani David\(^1\), Hachulla Eric\(^1\)

\(^1\)APHP, Hôpital Pitié-Salpêtrière – Paris – France, \(^2\)Internal Medicine Dpt, Hôpital Pitié-Salpêtrière, APHP, UPMC – Paris – France, \(^3\)Rheumatology dpt, University Hospital Hautepière – Strasbourg – France, \(^4\)Internal medicine & Infectious disease dpt, University Hospital St André – Bordeaux – France, \(^5\)Pneumology dpt, Hôpital Avicenne – Bobigny – France, \(^6\)Internal medicine dpt, University hospital – Dijon – France, \(^7\)Internal Medicine dpt, Hôpital C. Huriez, CHRU – Lille – France, \(^8\)Pneumology dpt, University Hospital – Strasbourg – France, \(^9\)Pneumology dpt, University Hospital Larrey – Toulouse – France, \(^10\)Internal Medicine dpt, Hôtel Dieu – Nantes – France, \(^11\)Pneumology dpt, Hôpital de Bicêtre, APHP, University of Paris XI – Le Kremlin Bicêtre – France

CLINICAL CHARACTERISTICS AND PROGNOSIS OF PULMONARY ARTERIAL HYPERTENSION WITH MOTTLED LIKE PATTERN ON LUNG PERFUSION SCANS IN RECENT ERA

Ichimura Yasunori\(^1\), Tanabe Nobuhiro\(^1\), Sugiura Toshihiko\(^1\), Sekine Ayumi\(^1\), Suda Rika\(^1\), Sakao Seiichiro\(^1\), Kasahara Yasunori\(^1\), Tatsumi Koichiro\(^1\)

\(^1\)Department of Respirology, Graduate School of Medicine, Chiba University – Chiba – Japan

OUTCOMES IN PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH CONGENITAL HEART DISEASE: INSIGHTS FROM THE SPANISH REGISTRY OF PULMONARY ARTERIAL HYPERTENSION (REHAP)

Jimenez Lopez-Guarch Carmen\(^1\), Oliver Jose Maria\(^2\), Dos Laura\(^2\), Segovia Javier\(^2\), Lazaro Maria\(^2\), Gallego Pastora\(^2\), Escribano Pilar\(^2\)

\(^1\)Hospital Universitario 12 de Octubre – Madrid – Spain, \(^2\)Hospital Universitario La Paz – Madrid – Spain, \(^3\)Hospital Universitario Vall d’Hebron – Barcelona – Spain, \(^4\)Hospital Universitario Puerta de Hierro – Madrid – Spain, \(^5\)Hospital Virgen de la Salud – Toledo – Spain, \(^6\)Hospital Virgen de la Macarena – Sevilla – Spain

ATRIAL SEPTAL DEFECT IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH CONGENITAL HEART DISEASE: CAN IT BE LONGER CONSIDERED A BENIGN ENTITY?

Jimenez Lopez-Guarch Carmen\(^1\), Subirana M. Teresa\(^2\), Quero Maria Concepcion\(^2\), Almenar Luis\(^2\), Castillo-Palma Maria J\(^3\), Lara Antonio\(^3\), Escribano Pilar\(^3\)

\(^1\)Hospital Universitario 12 de Octubre – Madrid – Spain, \(^2\)Hospital de Sant Pau – Barcelona – Spain, \(^3\)Hospital Universitario Ramón y Cajal – Madrid – Spain, \(^4\)Hospital Universitario La Fe – Valencia – Spain, \(^5\)Hospital Universitario Virgen del Rocio – Sevilla – Spain, \(^6\)Hospital Universitario de Canarias – Tenerife – Spain

PREVALENT AND EFFECTS OF SYSTEMIC HYPERTENSION IN PATIENTS WITH PULMONARY ARTERIAL HYPTERTENSION

Juvakka Oskar\(^1\), Bergfeldt Lennart\(^1\), Selimovic Nedim\(^1\)

\(^1\)Sahlgrenska University Hospital – Gothenburg – Sweden

PROGNOSTIC IMPACT OF RENAL FUNCTION IN PULMONARY HYPERTENSION

Kaiser Ralph\(^1\), Seiler Sarah\(^1\), Bals Robert\(^1\), Wilkins Heinrike\(^1\)

\(^1\)University of Saarland – Homburg/Saar – Germany
CORRELATIONS OF PULMONARY HYPERTENSION AND PULMONARY ARTERY DILATATION IN EISENMENGER SYNDROME
Kaldarova Monika\(^{(1)}\), Pacak Jozef\(^{(2)}\), Masura Jozef\(^{(2)}\), Simkova Iveta\(^{(2)}\)
\(^{(1)}\)National Institute of Cardiovascular Diseases - Children’s Cardiac Center – Bratislava – Slovakia, \(^{(2)}\)Dept. Cardiology, Slovak Medical University and National Institute of Cardiovascular Diseases – Bratislava – Slovakia

HEMODYNAMIC PREDICTORS OF MORTALITY IN ADULTS WITH SICKLE CELL DISEASE
Kato Gregory\(^{(1)}\), Mehari Alem\(^{(1)}\), Alam Shoaib\(^{(1)}\), Tian Xin\(^{(1)}\), Cuffica Michael\(^{(2)}\), Barnett Christopher\(^{(2)}\), Miles George\(^{(2)}\), Xu Dihua\(^{(2)}\), Seamon Catherine\(^{(2)}\), Adams-Grapes Patricia\(^{(2)}\), Castro Oswaldo\(^{(2)}\), Minniti Caterina\(^{(2)}\), Sadchek Vandana\(^{(2)}\), Gladwin Mark\(^{(2)}\), Machado Roberto\(^{(2)}\), Kato Gregory\(^{(2)}\)
\(^{(1)}\)National Institutes of Health ~ Bethesda, MD ~ United States, \(^{(2)}\)Northwestern University ~ Chicago, IL ~ USA

ASSESSMENT OF PULMONARY ARTERY DISTENSIBILITY INDEX IN PULMONARY ARTERY HYPERTENSION
Kazimli Aygun\(^{(1)}\), Ryzhkov Anton\(^{(1)}\), Goncharova Natalia\(^{(1)}\), Berezina Aelita\(^{(1)}\), Najmushin Alexandr\(^{(1)}\), Moiseeva Olga\(^{(1)}\)
\(^{(1)}\)Almazov’s Federal Heart, Blood and Endocrinology Centre ~ Saint-Petersburg ~ Russian Federation

PARADOXICAL SEPTAL MOTION INDEX STRONGLY CORRELATES WITH INVASIVE HEMODYNAMIC PARAMETERS
Kovács Attila\(^{(1)}\), Peluso Diletta\(^{(2)}\), Muraru Denisa\(^{(2)}\), Perazzolo Marra Martina\(^{(2)}\), Badano Luigi P\(^{(2)}\), Dal Bianco Lucia\(^{(2)}\), De Lazzari Manuel\(^{(2)}\), Iliceto Sabino\(^{(2)}\)
\(^{(1)}\)Heart Center, Semmelweis University ~ Budapest ~ Hungary, \(^{(2)}\)Department of Cardiac, Thoracic and Vascular Sciences, University of Padua ~ Italy

URGENT NEED FOR STANDARDIZED ZERO REFERENCE LEVEL IN PULMONARY HYPERTENSION
Kovacs Gabor\(^{(1)}\), Avian Alexander\(^{(1)}\), Olschewski Andrea\(^{(1)}\), Olschewski Horst\(^{(1)}\)
\(^{(1)}\)Ludwig Boltzmann Institute for Lung Vascular Research ~ Graz ~ Austria

LACK OF UTILITY OF AUTOANTIBODY TESTING FOR IDENTIFYING PATIENTS AT HIGH RISK OF DEVELOPING PULMONARY ARTERIAL HYPERTENSION: A RETROSPECTIVE ANALYSIS IN ROUTINE AUTOANTIBODY LABORATORY
Kuwana Masataki\(^{(1)}\), Shirai Yuichiro\(^{(1)}\)
\(^{(1)}\)Keio University ~ Tokyo ~ Japan

CARDIAC INDEX BY THERMODILUTION AND FROM NON-INVASIVE PULSE PRESSURE PROFILES ANALYSIS IN PAH
Lador Frédéric\(^{(1)}\), Sibton Olivier\(^{(1)}\), Simonneau Gérard\(^{(2)}\), Hervé Philippe\(^{(2)}\)
\(^{(1)}\)Hôpital Universitaire de Bicêtre ~ Paris ~ France, \(^{(2)}\)Hôpitaux Universitaires de Genève – Geneva ~ Switzerland, \(^{(2)}\)Centre Chirurgical Marie Lannelongue – Le Plessis Robinson – France

INCREASED MAIN PULMONARY ARTERY DIAMETER ON CHEST COMPUTED TOMOGRAPHY CAN PREDICT PRESENCE OF BORDERLINE PULMONARY HYPERTENSION
Lange Tobias\(^{(1)}\), Dornia Christian\(^{(1)}\), Stiefel Jaroslava\(^{(1)}\), Pleifer Michael\(^{(1)}\), Arzt Michael\(^{(1)}\), Hamer Okka\(^{(1)}\)
\(^{(1)}\)University Medical Center Regensburg ~ Regensburg ~ Germany
THE CONTRIBUTION OF RESPIRATORY MECHANICS TO DYSPNOEAE DURING EXERCISE IN PULMONARY ARTERIAL HYPERTENSION

Laveneziana Pierantoniai, Garcia Gillesii, Joureau Barbaraiii, Jais Xavieriv, Montani Davidd, Sitbon Olivieriv, Simonneau Géraldi

iCentre de Référence de l’Hypertension Pulmonaire Sévère, Service d’Explorations Fonctionnelles Respiratoires, INSERM U999 “HTAP: Physiopathologie et innovation thérapeutique” Hôpital Universitaire de Bicêtre (AP-HP), Université Paris-Sud 11, Le Kremlin-B. 

PULMONARY HYPERTENSION COMPLICATING BONE MARROW TRANSPLANTATION

Levy Marilynen, Herrtier Sebastieni, Blanche Stephanoi, Fischer Alanii, Bonnet Damieniii

iiUniversité Rene Descartes – Paris – France

PORTOPULMONARY HYPERTENSION IN PATIENTS WITH ISOLATED PORTAL VEIN DISEASE – A DISTINCT CLINICAL ENTITY?

Lukňar Milani, Tavacova Marcella, Simkova Iveta, Lesný Peter, Goncalvesová Eva

iNational Cardiovascular Institute – Bratislava – Slovakia

FIVE-YEAR OUTCOMES OF PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION: NEWLY versus PREVIOUSLY DIAGNOSED PATIENTS


ROLE OF CARDIAC MAGNETIC RESONANCE IN PULMONARY HYPERTENSION

Mercy Magali, Chaouat Ari, Guillamout Anne, Gomez Emmanuel, Marie Pierre-Yves, Bonnemains Laurent, Hutin Olivier, Selton-Suty Christine, Chabot François


OCCUPATIONAL EXPOSURE: A RISK FACTOR FOR PULMONARY VENO-OCCCLUSIVE DISEASE

Montani Davidd, Descatha Alexis, Le Pavé Jérôme, Savale Laurent, Jais Xavier, Zendah Inès, Sitbon Olivier, Simonneau Géraldi, Humbert Marcii

iUniversité Paris-Sud, Centre National de Référence de l’Hypertension Pulmonaire Sévère, Service de Pneumologie et Réanimation Respiratoire, Hôpital de Bicêtre, CHU Thorax Innovation, AP-HP, INSERM U999 – Le Kremlin Bicêtre – France

ECHOCARDIOGRAPHIC PREDICTORS OF THE PROGNOSIS OF PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION: A MULTIVARIATE ANALYSIS INCLUDING HAEMODYNAMICS AND EXERCISE CAPACITY

Monti Enrico, Barchetti Cristina, Rinaldi Andrea, Gotti Enrico, Terzi Francesca, Conifoni Elisa, Rizzo Nicole, Dardi Fabio, Mazzanti Gaia, Albini Alessandra, Palazzini Massimiliano, Manes Alessandra, Galie Nazzareno

iInstitute of Cardiology, University of Bologna – Italy

BASELINE HYPOXEMIA PREDICTS SURVIVAL IN PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION WITHOUT PATENT FORAMEN OVALE

Nair Arun, Fuller Julia, Crackett Rachel, Day Margaret, Lordan Jim, Fisher Andrew, Corris Paul

iNorthern Pulmonary Vascular Treatment Unit, Freeman Hospital – Newcastle upon Tyne – United Kingdom
INCREASED TRANSPULMONARY GRADIENT IN PATIENTS WITH SICKLE CELL ASSOCIATED PULMONARY HYPERTENSION PREDICTS POOR PROGNOSIS AND IS ASSOCIATED WITH RV DYSFUNCTION BY MRI
Nguyen Kim-Lien[1], Alam Shaibaib[1], Tian Xin[1], Leung Steve[1], Seamon Catherine[1], Minniti Caterina[1], Machado Roberto[1], Taylor James[1], Sachdev Vandana[1], Arai Andrew[1], Kato Gregory[1]
[1]National Institutes of Health – Bethesda, MD – USA

PROGNOSTIC FACTOR FOR SURVIVAL IN JAPANESE PATIENTS WITH IDIOPATHIC/HERITABLE PULMONARY ARTERIAL HYPERTENSION
Ogawa Aiko[1], Satoh Toru[2], Tamura Yuichi[2], Matsubara Hiromi[2]

THE PREVALENCE OF PULMONARY HYPERTENSION AMONG PATIENTS EVALUATED BY ECHO IS RELATED TO STRUCTURAL HEART DISEASE
Perna Eduardo[1], Coronel Maria[1], Cimbaro Canella Juan[1], Acevedo Pablo[1], Aристимуño Guillermo[1], Burgos Carlos[1], Parras Jorge[1], Obregón Ricardo[1], García Walter[1], García Edgar[1]
[1]Instituto de Cardiología J. F. Cabral – Corrientes – Argentina

SCHISTOSOMIASIS-ASSOCIATED PULMONARY ARTERIAL HYPERTENSION. SURVIVAL IN ENDEMIC AREA IN BRAZIL
Piscoya Carlos[1], Mendes Adriano[1], Cartaxo Tereza[1], Oliveira Sheilla[1], Valle Neto Leônidas[1], Sobral Dario[1]

WHICH MECHANISMS AND BIOMARKERS CAN PREDICT FUNCTIONAL CAPACITY ON PULMONARY ARTERIAL HYPERTENSION?
Plácido Rui[1], Silva Marques João[1], Robalo Martins Susana[1], Jorge Cláudia[1], Calisto Carina[1], Gonçalves Susana[1], Ribeiro Sónia[1], Almeida Ana[1], Nunes Diogo António[1]
[1]Hospital de Santa Maria – Lisboa – Portugal

NEW AND OLD BIOMARKERS FOR PROGNOSIS STRATIFICATION IN PULMONARY ARTERIAL HYPERTENSION
Plácido Rui[1], Silva Marques João[1], R. Martins Susana[1], Jorge Cláudia[1], Calisto Carina[1], Gonçalves Susana[1], Ribeiro Sónia[1], Almeida Ana[1], Nunes Diogo António[1]
[1]Hospital de Santa Maria – Lisboa – Portugal

LIPOPROTEIN-ASSOCIATED PHOSPHOLIPASE A2 AND CHOLESTEROL CAN PREDICT SURVIVAL IN PULMONARY ARTERIAL HYPERTENSION AND CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Quarck Rozenn[1], Durand Hervé[2], Ninio Ewa[2], Delcroix Marion[2]

HYPOCAPNIA A INDEPENDENT MARKER OF MORTALITY IN PULMONARY ARTERIAL HYPERTENSION PATIENTS
Ramos Roberta[1], Vieira Machado Ferreра Elora[1], Valois Fabricio[1], Silva Celia[1], Nery Luiz[1], Arakaki Jaquelina[1]
[1]Federal University of São Paulo - UNIFESP – São Paulo – Brazil

CHARACTERISTICS AND SURVIVAL OF PATIENTS WITH HEMOPTYSIS IN PULMONARY ARTERIAL HYPERTENSION
Seferian Andrei[1], Savale Laurent[1], Montani David[1], Girerd Barbar[1], Günther Sven[1], Artaud-Macari Elise[1], Parent Florence[1], Sitbon Olivier[1], Humbert Marc[1], Simonneau Gérard[1], Jais Xavier[1]
[1]CHU Bicêtre Service de Pneumologie et Réanimation Respiratoire, Inserm U999, DHU TORINO, Centre Chirurgical Marie Lannelongue, Université Paris-Sud – Paris – France
**Poster Sessions**

**MIXED VENOUS OXYGEN TENSION AFFECTS THE PROGNOSIS ON PULMONARY HYPERTENSION EVEN IN RECENT ERA**
Sekine Ayumi[1], Tanabe Nobuhiro[1], Suda Rika[1], Nishimura Rintaro[1], Jujo Takayuki[1], Sugiyura Toshihiko[1], Sakao Seiichiro[1], Kasahara Yasunori[1], Tatsumi Koichiro[1]
[1]Department of Respirology, Graduate School of Medicine, Chiba University ~ Chiba ~ Japan

**LEFT VENTRICULAR EJECTION TIME AS A PROGNOSTIC FACTOR IN ACUTE HEART FAILURE FROM PULMONARY HYPERTENSION: A NON INVASIVE ARTERIAL TONOMETRY STUDY**
Sztrymf Benjamin[2], Günther Sven[3], Savale Laurent[3], Jaïs Xavier[3], Sitbon Olivier[3], Simonneau Gérald[3], Humbert Marc[3], Chemla Denis[1]

**SAFETY AND EFFICACY OF ACTIVE VIDEO GAMES-BASED EXERCISE TRAINING IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION**
Tamura Yuichi[1], Ono Tomohiko[1], Takei Makoto[1], Yamamoto Tsunehisa[1], Kawakami Takashi[1], Kataoka Masaharu[1], Sano Motoaki[1], Satoh Toru[1], Fukuda Keichi[1]

**RISK FACTORS FOR HEMOPTYSIS IN PULMONARY HYPERTENSION**
Tio Darryl[1], Leter Edward[1], Boerrigter Bart[1], Boonstra Anco[1], Vonk Noordegraaf Anton[1], Bogaard Herman Jan[1]
[1]Vrije Universiteit Amsterdam ~ Netherlands

**EXERCISE VENTILATORY INEFFICIENCY AS AN INDEPENDENT PREDICTOR OF MORTALITY IN PATIENTS WITH PAH**
Vieira Machado Ferreira Eloara[1], Ramos Roberta[1], Valois Fabricio[1], Figueiredo Priscila[1], Arakaki Jaqueline[1], Neder J Alberto[1]
[1]Federal University of São Paulo - UNIFESP ~ São Paulo ~ Brazil

**SAFETY OF CARDIAC CATHETERIZATION AT A CENTER SPECIALIZED IN THE CARE OF PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION**
Zuckerman Warren[1], Turner Mariel E[1], Kerstein Jason[1], Torres Alejandro[1], Vincent Julie A[1], Krishnan Usha[1], Kerstein Diane[1], Rosenzweig Erika[1]
[1]Columbia University Medical Center ~ New York ~ USA

**THERAPY – STANDARD OF CARE**

**A RANDOMIZED OPEN LABEL STUDY COMPARING FIRST-LINE TREATMENT WITH BOSENTAN OR SILDENAFIL IN PULMONARY ARTERIAL HYPERTENSION (PAH): SHORT-TERM RESULTS**
Albini Alessandra[1], Mazzanti Gaia[1], Bachetti Cristina[1], Terzi Francesca[1], Palazzini Massimiliano[1], Rizzo Nicole[1], Dardi Fabio[1], Rinaldi Andrea[1], Gotti Enrico[1], Monti Enrico[1], Manes Alessandra[1], Galilei Nazzareno[1]
[1]Institute of Cardiology, University of Bologna ~ Italy

**INFLUENCE OF PROSTACYLIN THERAPY ON SURVIVAL IN PORTOPULMONARY HYPERTENSION: A TRANSPLANT CENTER’S ANSWER TO REVEAL REGISTRY DATA**
Awdish Rana[1], Cajigas Hector[1]
[1]Henry Ford Hospital ~ Detroit ~ United States
EFFICACY OF EXERCISE TRAINING IN PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH CONGENITAL HEART DISEASE

Becker-Gruenig Tabea[1], Ehiken Nicola[1], Klose Hans[2], Lichtblau Monal[3], Nagel Christian[4], Fischer Christine[5], Gorenflo Matthias[6], Tiede Henning[7], Schranz Dietmar[8], Hager Alfred[9], Kaemmerer Harald[10], Miera Oliver[11], Speich Rudolf[12], Ulrich Silvia[13], Ulker Soeren[14], Grünig Ekkehard[15]


AMBRISENTAN FOR PULMONARY ARTERIAL HYPERTENSION. RESULTS IN A COHORT OF SPANISH PATIENTS

Castillo-Palma María[1], González-Pulido Cristina[2], Porras-Antras Isabel[1], González-León Rocío[1], López-Haldón José[3], Hinojoza-Perez Rafael[3], Ocaña-Medina Celia[3], García-Hernández Francisco J[3]


ORAL MONOTHERAPY IN PATIENTS WITH PORTO-PULMONARY HYPERTENSION

Conficoni Elisabetta[1], Dardi Fabio[1], Palazzini Massimiliano[1], Bachetti Cristina[1], Terzi Francesca[1], Rizzo Nicole[2], Rinaldi Andrea[2], Gotti Enrico[3], Mazzanti Gaia[4], Albini Alessandra[5], Monti Enrico[6], Manes Alessandra[7], Galie Nazzareno[8]

[1]Institute of Cardiology. University of Bologna – Italy

EFFICACY AND SAFETY OF UP-FRONT COMBINATION THERAPY

Dardi Fabio[1], Bachetti Cristina[1], Terzi Francesca[1], Rizzo Nicole[2], Conficoni Elisabetta[1], Rinaldi Andrea[2], Gotti Enrico[3], Mazzanti Gaia[4], Palazzini Massimiliano[5], Albini Alessandra[6], Monti Enrico[7], Manes Alessandra[8], Galie Nazzareno[9]

[1]Institute of Cardiology, University of Bologna – Italy

ANTI-INFLAMMATORY EFFECTS OF EPOPROSTENOL IN RIGHT VENTRICULAR FAILURE ON ACUTE PULMONARY HYPERTENSION

Dewachter Céline[1], Vercruysen Marie[1], Rondelet Benoît[1], Schraufnagel Dean[1], Brimouille Serge[1], Kerbaul François[1], Dewachter Laurence[1], Naeije Robert[1]

[1]Université Libre de Bruxelles – Brussels – Belgium

COST-EFFECTIVENESS ANALYSIS OF REHABILITATION WITH EXERCISE AND RESPIRATORY THERAPY IN PULMONARY HYpertension

Ehiken Nicola[1], Verduyn Cora[2], Tiede Henning[3], Staehler Gerd[4], Oblutschewski Horst[5], Opitz Christian[6], Klose Hans[7], Wilkens Heinrike[8], Rosenkranz Stephan[9], Halank Michael[10], Grünig Ekkehard[11]


IMPACT OF PULMONARY ARTERIAL HYPERTENSION (PAH) ON THE LIVES OF PATIENTS AND CARERS

Ferrari Pisana[1], Armstrong Ian[2], Aldighetti Rino[3], Howard Luke[4], Rytenius Henrik[5], Fischer Aryeh[6], Lombardi Sandra[7], Studer Sean[8], Guillène Loic[9]

HEMODYNAMIC ASSESSMENT OF PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION (PAH) IN THE PHASE III PATENT-1 STUDY

Galit Naazzenaro[1], Grimminger Friedrich[1], Grünig Ekkehard[1], Hambert Marc[2], Jing Zhi-Cheng[3], Keogh Anne M.[4], Langleben David[5], Rubin Lewis[6], Ochan Kilama Michael[6], Fritsch Arnol[7], Neuser Dieter[7], Ghofrani Hossein Ardeschir[8]


BOSENTAN FOR PULMONARY ARTERIAL HYPERTENSION. RESULTS IN A COHORT OF SPANISH PATIENTS

García-Hernández Francisco J[1], Montero-Mateos Enrique[1], León-Guisado Antonio[1], González-León Rocio[1], Herruzo-Avilés Angel[1], López-Pardo Francisco[1], Ocaña-Medina Celia[1], Castillo-Palma Maria J[1]


PROPEL – PROSPECTIVE REGISTRY OF PARENTERAL PROSTANOIDS

Jansa Pavel[1], Kandrnal Vital[2], Votavova Regina[1], Mangold Andreas[1], Al-hiti Hikmet[1], Goncalvesova Eva[1], Studencan Martin[1], Podracky Juraj[1], Simkova Iveta[1], Mízia-Stec Katarzyna[1], Koziardzka Anna[1], Nowacka Magdalena[1], Jarkovsky Jiri[1], Dusek Ladislav[1], Lang Irene[1]


LUNG AND HEART-LUNG TRANSPLANTATION FOR SYSTEMIC SCLEROSIS PATIENTS

Launay David[1], Savale Laurent[1], Berezne Alice[1], Mercier Olaf[1], Mouthon Luc[1], Hachulla Eric[1], Fadel Elie[1], Le Pavé Jérôme[1], Sitbou Olivier[1], Daroueil Philippe[1], Guillemin Loïc[1], Simonneau Gérald[1], Humbert Marc[2], Mussot Sacha[1]


SURVIVAL IN INCIDENT PAH PATIENTS IN THE ERA OF TARGETED TREATMENT: A SINGLE CENTRE EXPERIENCE FROM CENTRAL-EASTERN EUROPE

Luknár Milan[1], Liška Branišlav[1], Lesný Peter[1], Varga Iván[1], Soubrier Florent[1], Goncalvesová Eva[1]


EXERCISE TRAINING IN PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH CONNECTIVE TISSUE DISEASES

Maier Felicitas C[1], Ehiken Nicola[1], Nagel Christian[1], Lichtblau Mona[1], Fischer Christine[1], Blank Norbert[2], Grünig Ekkehard[2]


LUNG TRANSPLANTATION IN PATIENTS WITH PULMONARY HYPERTENSION: A RETROSPECTIVE SINGLE CENTER EXPERIENCE

Nierlich Patrick[1], Jaksch Peter[1], Ghanim Bahl[1], Aigner Clemens[1], Lang Georg[1], Taghavi Shahrkooh[1], Klepetko Walter[1]

[1]Division of Thoracic Surgery, Department of Surgery – Medical University Vienna – Austria
NEW INSIGHT AND OUR CLINICAL EXPERIENCES: TREATING PULMONARY HYPERTENSION IN LIVER FAILURE
Rankovic Ivan[1], Stojkovic Milica[1], Pavlovic Markovic Aleksandra[1], Cularic Djordje[1], Popovic Dragan[1], Spuran Milan[1], Jovicic Ivana[1], Jovanovic Ivan[1], Krsic Miodrag[1], Rajic Zoran[1], Pesko Predrag[1], Milosavljevic Tomica[1]

COMPARISON OF CLINICAL, FUNCTIONAL AND HAEMODYNAMIC CHARACTERISTICS OF PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH PORTAL HYPERTENSION, HIV INFECTION OR BOTH
Rizzo Nicole[1], Bachetti Cristina[1], Palazzini Massimiliano[1], Terzi Francesca[1], Conficoni Elisa[1], Dardi Fabio[1], Rinaldi Andrea[1], Gotti Enrico[1], Mazzanti Gaia[1], Albini Alessandra[1], Monti Enrico[1], Manes Alessandra[1], Galie Nazzareno[1]
[1]Institute of Cardiology, University of Bologna – Italy

EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) AS A NOVEL AND EMERGING BRIDGING STRATEGY IN IDIOPATHIC PULMONARY HYPERTENSION (IPAH)/ASSOCIATED PULMONARY HYPERTENSION (APAH)
Rosenzweig Erika[1], Brodie Daniel[1], Abrams Darryl[1], Agerstand Cara[1], Bacchetta Matthew[1]

INTERACTION OF PDE5 INHIBITORS WITH PROSTACYCLIN AND GUANYLATE CYCLASE ACTIVATORS ON CELL PROLIFERATION OF SMOOTH MUSCLE IN PAH
Rupasinghe Binara[1], Clapp Lucie[1], Hobbs Adrian[2], Abraham David[3]
[1]Division of Medicine, University College London – United Kingdom, [2]Barts & The London School of Medicine & Dentistry, Queen Mary University of London – United Kingdom

OUTCOME OF CANDIDATES FOR LIVER TRANSPLANTATION SUFFERING FROM PORTOPULMONARY HYPERTENSION

INTRAVENOUS SILDERAFIL - NEW ROLE FOR A NOT SO NEW DRUG?
Shekar Kiran[1], Buschel Rachel[1], Kermeen Fiona[1]
[1]The Prince Charles Hospital – Brisbane – Australia

ASYMMETRIC DIMETHYLARGININE, A BIOMARKER FOR THE EFFECTS OF DRUG THERAPY IN PULMONARY HYPERTENSION
Skoro-Sajer Nika[1], Assharu Stefan[2], Hlavin Gerald[2], Wolzt Michael[2], Sadushi-Kolioc Roela[2], Lang Irene[2]
[1]Department of Internal Medicine, Division of Cardiology, Medical University of Vienna – Austria, [2]Department of Clinical Pharmacology, Medical University of Vienna – Austria, [3]Section of Medical Statistics, Medical University of Vienna – Austria

MORTALITY REVIEW OF PULMONARY ARTERIAL HYPERTENSION PATIENTS ON IV PROSTACYCLIN ANALOGUES
Spikes Leslie[1], Maalouf Najia[1], Satterwhite Lewis[1], Westhoff Ryan[1], Landzaat Lindy[1], Williamson Timothy[1]
[1]University of Kansas Medical Center – Kansas City – USA

330 PATIENT MONTHS WITH INTRAVENOUS TREPROMINIL AND LENUS PRO - A MULTICENTER SAFETY ANALYSIS
Steringer-Mascherbauer Regina[1], Andreasen Arne K[2], Hohenforst-Schmidt Wolfgang[2], Jansa Pavel[2], Ewert Ralf[2]

INTRAVENOUS TREPROMINIL IN PAH: A NOVEL „SURGICAL“ APPROACH
Steringer-Mascherbauer Regina[1], Fuegger Reinhold[1], Froeschl Uwe[1], Eder Veronika[1], Huber Charlotte[1], Nesser Hans-Joachim[1]
[1]KH Elisabethinen – Linz – Austria
Poster Sessions

Thursday, February 28

**G PROTEIN G3 SUBUNIT GNB3 C825T POLYMORPHISM AFFECTS THE EFFICACY OF SILDENAFIL ON PULMONARY HYPERTENSION**
Tanabe Nobuhiro[1], Sekine Ayako[1], Sugiura Toshihiko[1], Nisihmura Rintaro[1], Jujo Takayuki[1], Ichimura Yasunori[1], Sakao Seiichiro[1], Kasahara Yasunori[1], Tatsumi Koichiro[1]
[1]Graduate School of Medicine, Chiba University – Chiba – Japan

**THE LESS-STRINGENT CRITERIA OF PULMONARY ARTERY VASOREACTIVITY PREDICTS TREATMENT EFFICACY IN PATIENTS WITH PULMONARY HYPERTENSION**
Toyao Kaori[1], Taguchi Hiroki[1], Yanagisawa Ryoji[1], Shimura Nobuhiko[1], Inami Takumi[1], Ishiguro Haruhisa[1], Kataoka Masaharu[1], Yoshino Hideaki[1], Satoh Toru[1]
[1]Division of Cardiology, Department of Medicine, Kyorin University School of Medicine – Tokyo – Japan

**OUTCOMES OF SYSTEMIC SCLEROSIS PATIENTS WITH EXERCISE INDUCED PULMONARY ARTERIAL HYPERTENSION TREATED WITH ADVANCED THERAPIES**
Treleaven Jeanette[1], Fowler Robin[1], Gabbay Eli[1]
[1]Royal Perth Hospital – Perth – Australia

**PREVALENCE OF DEPRESSION, ANXIETY AND STRESS IN ADULT PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION (PAH) AND THEIR IMPACT ON THE HEALTH RELATED QUALITY OF LIFE (QOL)**
Vandevelde Ellen[1], Vanhoof Jasper[2], Wynts Wim[2], Dobbels Fabienne[2], Delcroix Marion[1]
[1,2]University Hospitals of Leuven – Belgium

**EVALUATION OF ANXIETY AND DEPRESSION IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION**
Yorke Janelle[1], Campbell Malcolm[1], Armstrong Iain[1]

**RECURRENT OF PAH TWENTY TWO YEARS AFTER SINGLE LUNG TRANSPLANTATION**
Zhao Yidan[1], Yun Hanna[1], Lu Catherine[1], Peng Jenny[1], Wu Licun[1], Granton John[1], De Perrot Marc[1]
[1]University Health Network – Toronto – Canada

**THERAPY - GOALS**

**A QUALITATIVE INVESTIGATION OF PATIENTS’ EXPERIENCES OF LIVING WITH PULMONARY HYPERTENSION**
Armstrong Iain[1], Yorke Janelle[2]

**THE GOAL OF THE EPROSTENOL THERAPY IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION**
Kikuchi Hanako[1], Taguchi Hiroki[1], Yanagisawa Ryoji[1], Shimura Nobuhiko[1], Inami Takumi[1], Ishiguro Haruhisa[1], Kataoka Masaharu[1], Yoshino Hideaki[1], Satoh Toru[1]
[1]Division of Cardiology, Department of Medicine, Kyorin University School of Medicine – Tokyo – Japan

**METHODS FOR CONSIDERING TREATMENT EFFECTS ON MULTIPLE ENDPOINTS WHEN DEFINING PATIENT RESPONSE IN PAH CLINICAL TRIALS**
Kittelson John[1], Dusek Alex[1], Badesch David B[3]
[1]Bayer Health Care Pharmaceuticals – Berlin – Germany, [2]Pulmonary Sciences and Critical Care Medicine, University of Colorado Denver – Aurora, Colorado – USA, [3]Professor Department of Biostatistics and Informatics, Colorado School of Public Health, University of Colorado Denver – Aurora, Colorado – USA
NEW TRIALS DESIGN AND NEW THERAPIES

ACUTE HEMODYNAMIC RESPONSE TO INHALED NITRITE IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Bachman Tim[1], Longhini Anthony[1], Pogozelski Andrew[1], White Pamela[1], Edelman Kathy[1], Risbano Michael[1], Simon Marc[1], Shiva Sruti[1], Gladwin Mark[1], Champion Hunter[1]
[1]University of Pittsburgh – USA

(-)-EPICATEHIN MIGHT HAVE BENEFICIAL EFFECTS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Barnett Christopher[1], McGothin Dana[1], De Marco Teresa[1]
[1]University of California San Francisco – San Francisco – United States

PERCUTANEOUS GENE TRANSFER TO THE PULMONARY VASCULATURE OF SWINE
Benza Raymond[1], Murrali Srinivas[1], Sokos George[1], Geguchadze Ramaz[1], Passineau Michael[1]

THE PI 3-KINASE ISOFORM P110 ALPHA REPRESENTS A PROMISING THERAPEUTIC TARGET FOR PULMONARY ARTERIAL HYPERTENSION
Berghausen Eva Maria[1], Janssen Wiebke[2], Vantler Marius[1], Ten Freyhaus Henrik[1], Zhao Jean J[1], Schermuly Ralph Theo[2], Rosenkranz Stephan[1]

UPDATE ON DASATINIB RELATED PULMONARY ARTERIAL HYPERTENSION
Montani David[1], Bergot Emmanuel[1], Günther Sven[1], Savale Laurent[1], Bourdin Arnaud[1], Canuet Matthieu[1], Pison Christophe[1], Macro Margareth[1], Pouteau Patrice[1], Giret Barbara[1], Prevot Grégoire[1], Guignabert Christophe[1], Perros Frédéric[1], Jaïs Xavier[1], Zalcman Gérard[1], Sitbon Olivier[1], Simonneau Gérald[1], Humbert Marc[1]

SYNERGISTIC EFFECT OF IMATINIB AND SILDENAFIL ON AMELIORATION OF PULMONARY HYPERTENSION - ROLE OF BONE MORPHOGENIC PROTEIN (BMP)-SIGNALING PATHWAY

THE CASE OF THE EFFECTIVE APPLICATION OF AUTOLOGOUS MESENCHYMAL STEM CELLS IN PATIENT WITH EISENMENGER SYNDROME
Salakhova Ganna[1], Popandopulo Andrew[1]

EFFECTS OF BROAD SPECTRUM TYROSIN KINASE INHIBITOR IN EXPERIMENTAL PULMONARY HYPERTENSION
Seferian Andrei[1], Tu Ly[2], Huertas Alice[2], Phan Carole[2], Ricardo Nicolas[2], Perros Frédéric[1], Simonneau Gérald[1], Humbert Marc[1], Montani David[1], Guignabert Christophe[1]
COMPARISON OF CLINICAL OUTCOMES ACCORDING TO TREATMENT STRATEGY IN PATIENTS WITH ACUTE INTERMEDIATE-RISK PULMONARY THROMBOEMBOLISM
Ahn Jinhee[1], Choi Jung Hyun[1], Im Kyoung Min[1], Yang Mi Jin[1]
[1] Pusan National University Hospital – Busan – Korea, Republic of

PULMONARY EMBOLISM IN SWEDEN, ANALYSIS OF A NATIONAL COHORT. INCIDENCE OF CTEPH AND ITS DETERMINANTS
Andersson Therese[1], Larsen Flemming[1], Carlberg Bo[2], Söderberg Stefan[2]

BALLOON PULMONARY ANGIOPLASTY IN CHRONIC THROMBOEMBOLIC DISEASE – AN INTERVENTION IN PATIENTS WITH DENIED OR UNSUCCESSFUL THROMBENDARTERECTOMY
Andreasen Arne[1], Ragnarsson Asgrimur[1], Gude Einard[1], Geiran Odd[1], Andersen Rune[1]
[1] Oslo University Hospital Rikshospitalet – Oslo – Norway

PULMONARY HEMODYNAMIC BENEFIT IS ACHIEVED WITH RESECTION OF SEGMENTAL-LEVEL (JAMIESON TYPE III) CHRONIC THROMBOEMBOLIC DISEASE
Auger William R[1], Madani Michael[1], Kim Nick H[1], Fedullo Peter F[1], Kerr Kim[1], Pretorius Victor[1], Fernandes Timothy[1], Jamieson Stuart W[1]
[1] University of California San Diego – La Jolla, CA – USA

CLINICAL AND EPIDEMIOLOGIC ANALYSIS OF PATIENTS UNDERGOING PULMONARY ENDARTERECTOMY IN ARGENTINA
Favaloro Roberto[1], Peradejordi Margarita[1], Favaloro Liliana[1], Cáneva Jorge[1], Klein Francisco[1], Talavera Luján[1], Bertolotti Alejandro[1]
[1] Favaloro Foundation, University Hospital – Buenos Aires – Argentina

PULMONARY ENDARTERECTOMY: 19 YEAR FOLLOW-UP. SINGLE CENTER EXPERIENCE
Favaloro Roberto[1], Peradejordi Margarita[1], Bertolotti Alejandro[1], Favaloro Liliana[1], Gómez Carmen[1], Cáneva Jorge[1], Klein Francisco[1], Talavera Luján[1]
[1] Favaloro Foundation, University Hospital – Buenos Aires – Argentina

EFFECTS OF PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY ON PULMONARY HEMODYNAMICS AND LONG-TERM PROGNOSIS OF PATIENTS WITH DISTAL-TYPE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Fukumoto Yoshihiro[1], Sugimura Koichiro[1], Nochioka Kotaro[1], Miura Yutaka[1], Aoki Tatsuo[1], Tatebe Shunsuke[1], Miyamichi-Yamamoto Saori[1], Shimokawa Hiroaki[1]
[1] Tohoku University Graduate School of Medicine – Sendai – Japan

EFFECTS OF MEDICAL TREATMENT FOR OPERABLE AND INOPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION PATIENTS
Gotti Enrico[1], Terzi Francesca[1], Bachetti Cristina[1], Conficoni Elisa[1], Rizzo Nicole[1], Dardi Fabio[1], Rinaldi Andrea[1], Mazzanti Gaia[1], Monti Enrico[1], Albini Alessandra[1], Palazzini Massimiliano[1], Manes Alessandra[1], Galie Nazzareno[1]
[1] Institute of Cardiology, University of Bologna – Italy
ANXIETY AND DEPRESSION DISORDERS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION AND CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Grünig Ekkehard[1], Peña Pinado Fabiola[1], Elhken Nicola[1], Nagel Christian[1], Fischer Christine[1], Tiede Henning[2], Rosenkranz Stephan[2], Seyfarth Hans-Jürgen[1], Mayer Eckhard[1], Halank Michael[1], Guth Stefan[2]

PREVALENCE OF CHRONIC-THROMBOEMBOLIC PULMONARY HYPERTENSION AFTER PULMONARY EMBOLISM: A PROSPECTIVE MULTICENTER COHORT STUDY
Guérin Laurent[1], Couturaud Francis[2], Revel Marie-Pierre[3], Gillaizeau Florence[1], Simonneau Gérald[3], Meyer Guy[1], Sanchez Olivier[1]

EFFICACY OF PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY FOR THE PATIENTS WITH CHRONIC THROMBO-EMBOLIC PULMONARY HYPERTENSION WHO HAVE RESIDUAL PULMONARY ARTERIAL HYPERTENSION AFTER PULMONARY ENDARTERECTOMY
Inami Takumi[1], Kataoka Masaharu[1], Shimura Nobuhiko[1], Yanagisawa Ryoji[1], Taguchi Hiroki[1], Ishiguro Haruhisa[1], Hayashida Kentaro[1], Tamura Yuichi[2], Kawakami Takashi[1], Yoshino Hideaki[1], Satoh Toru[1]

PREDICTIVE NEW INDEX OF REPERFUSION PULMONARY EDEMA IN PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY FOR THE TREATMENT OF CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Inami Takumi[1], Kataoka Masaharu[1], Shimura Nobuhiko[1], Yanagisawa Ryoji[1], Taguchi Hiroki[1], Ishiguro Haruhisa[1], Hayashida Kentaro[1], Kawakami Takashi[1], Tamura Yuichi[2], Yoshino Hideaki[1], Satoh Toru[1]

ANGIOGRAPHIC FLOW GRADE IS USEFUL TO DETERMINE THE ENDPOINT IN PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY
Inami Takumi[1], Kataoka Masaharu[1], Shimura Nobuhiko[1], Yanagisawa Ryoji[1], Taguchi Hiroki[1], Ishiguro Haruhisa[1], Hayashida Kentaro[1], Kawakami Takashi[1], Tamura Yuichi[2], Yoshino Hideaki[1], Satoh Toru[1]

PULMONARY ARTERY SARCOMA: A SINGLE CENTER CASE SERIES WITH 40 PATIENTS
Kerr Kim[1], La Vine David[1], Lin Grace[1], Auger William R[1], Fedullo Peter F[1], Kim Nick H[1], Jamieson Stuart W[1], Poch David[1], Madani Michael[1]
[1]University of California San Diego – La Jolla, CA ~ USA

MANAGEMENT OF AIRWAY BLEEDING DURING PULMONARY ENDARTERECTOMY
Morsolini Marco[1], Mattiucci Gabriella[1], Vistarrini Nicola[1], Valsecchi Federica[1], Salati Maurizio[1], Orlandoni Giulio[1], D’Armini Andrea Maria[1]
[1]University of Pavia School of Medicine Division of Cardiac Surgery – Pavia ~ Italy, [2]University of Pavia School of Medicine Intensive Care Unit III – Pavia ~ Italy, [3]University of Pavia School of Medicine Unit of Thoracic Surgery – Pavia ~ Italy, [4]University of Pavia School of Medicine Department of Surgery, Division of Cardiac Surgery – Pavia ~ Italy
PULMONARY ENDARTERECTOMY IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION PRESENTING WITH WHO II SYMPTOMS
Morsolini Marco[1], Mattucci Gabriella[2], Vistarini Nicola[1], Monterosso Cristian[2], Silvaggio Giuseppe[2], Ghio Stefano[2], D’Armini Andrea Maria[2]

[1] University of Pavia School of Medicine Department of Surgery, Division of Cardiac Surgery – Pavia – Italy, [2] University of Pavia School of Medicine Division of Cardiac Surgery – Pavia – Italy

EXTRACORPOREAL MEMBRANE OXYGENATION SUPPORT EARLY AFTER PULMONARY ENDARTERECTOMY
Morsolini Marco[1], Vistarini Nicola[2], Degani Antonella[3], Cattadori Barbara[3], Pellegrini Carlo[3], Goggi Claudio[3], D’Armini Andrea Maria[2]

[1] University of Pavia School of Medicine Department of Surgery, Division of Cardiac Surgery – Pavia – Italy, [2] University of Pavia School of Medicine Division of Cardiac Surgery – Pavia – Italy, [3] University of Pavia School of Medicine Unit of Cardiovascular Perfusion – Pavia – Italy

SURGICAL TREATMENT OF CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: 20 YEARS OF EXPERIENCE FROM A SINGLE CENTER
Nierlich Patrick[1], Taghavi Shahrokhi[1], Hoda Mir Ali Reza[1], Ghanim Bahill[1], Lang Irene[1], Klepetko Walter[1]

[1] Division of Thoracic Surgery, Department of Surgery, Medical University Vienna – Austria

PREVALENCE OF VQ SCAN UTILIZATION AND MEDICAL THERAPY TRIAL IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: UCSD REFERRAL CENTER EXPERIENCE
Poch David[1], Kerr Kim[1], Auger William R[1], Fedullo Peter F[1], Mandel Jessi[1], Pretorius Victor[1], Jamieson Stuart W[1], Madani Michael[1], Kim Nick H[1]

[1] University of California San Diego – La Jolla, CA – United States

SHOULD WE OFFER PULMONARY ENDARTERECTOMY TO OCTOGENARIANS?
Pretorius Victor[1], Poch David[1], Auger William R[1], Kerr Kim[1], Fedullo Peter F[1], Kim Hyong[1], Madani Michael[1], Jamieson Stuart W[1]

[1] University of California – San Diego – United States

DIFFERENT SURVIVAL IN PATIENTS WITH OPERABLE AND INOPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: A SINGLE CENTER EXPERIENCE
Rinaldi Andrea[1], Gotti Enrico[1], Terzi Francesca[1], Bachetti Cristina[1], Confincoli Elisa[1], Rizzo Nicole[1], Dardi Fabio[1], Mazzanti Gaia[1], Albini Alessandra[1], Monti Enrico[1], Palazzini Maassimiliano[1], Manes Alessandra[1], Galili Nazzareno[1]

[1] Institute of Cardiology, University of Bologna – Italy

CLINICAL WORSENING ASSESSMENT FOLLOWING PULMONARY ENDARTERECTOMY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Schölzel Bas[1], Post Marco[1], Plokker Thijs[1], Snijder Repke[1], Budts Werner[2], Morshuis Wim[1], Wuyts Wim[2], Meyns Bart[2], Delcroix Marion[2]


PREDICTION OF OUTCOME AFTER PULMONARY THROMBO-ENDARTERECTOMY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION BY USING INDEXED PULMONARY ARTERY DIAMETER
Schölzel Bas[1], Post Marco[1], Dymarkowski Steven[1], Wuyts Wim[2], Meyns Bart[2], Budts Werner[2], Morshuis Wim[1], Snijder Repke[1], Delcroix Marion[2]

PREDICTION OF HEMODYNAMIC IMPROVEMENT AFTER PULMONARY ENDARTERECTOMY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION USING OCCLUSION PRESSURE ANALYSIS
Schödel Basi, Post Marco, Fesler Pierre, Van De Bruaene Alexander, Dymarkowski Steven, Wuyts Wim, Meyns Bart, Budts Werner, Delcroix Marion

PREDICTION OF HEMODYNAMIC IMPROVEMENT AFTER PULMONARY ENDARTERECTOMY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION USING NON-INVASIVE IMAGING
Schödel Basi, Post Marco, Van De Bruaene Alexander, Dymarkowski Steven, Wuyts Wim, Meyns Bart, Budts Werner, Delcroix Marion

REFINED BALLOON PULMONARY ANGIOPLASTY AS A PROMISING OPTION FOR INOPERABLE PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Shimokawahara Hiroto, Ogawa Aiko, Mizuguchi Hiroki, Munemasa Mitsuru, Miyai Katsumasa, Matsubara Hiromi

INTERLEUKINE-6 IS A USEFUL MARKER FOR IDENTIFYING HEMODYNAMICS AND PREDICTING REPERFUSION PULMONARY EDEMA AFTER ANGIOPLASTY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Shimura Nobuhiko, Inami Takumi, Kataoka Masaharu, Yanagisawa Ryoji, Taguchi Hiroki, Ishiguro Haruhisa, Hayashida Kentaro, Kawakami Takashi, Tamura Yuichi, Yoshino Hideaki, Satoh Toru, Kimura Go, Isaka Aori

ELECTROCARDIOGRAPHY PROPERLY REFLECTS THE CHANGES OF RIGHT-SIDED HEART OVERLOAD IN PATIENTS WITH CHRONIC PULMONARY THROMBOEMBOLISM TREATED BY PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY
Shimura Nobuhiko, Inami Takumi, Kataoka Masaharu, Yanagisawa Ryoji, Ishiguro Haruhisa, Hayashida Kentaro, Taguchi Hiroki, Kawakami Takashi, Tamura Yuichi, Yoshino Hideaki, Satoh Toru

CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: IS THERE A PARAMETER ABLE TO PREDICT SURGICAL INDICATION?
Silva Doroteia, Garrido-Lestache Elvira Barrios, Alonso Catherine Sergio, Flox Camacho Angéla, Velázquez Martin Maria Teresa, Ruiz Cano Maria José, Escribano Pilar, Gómez Sánchez Miguel Angelo, Cortina José María

RIOCIGUAT FOR THE TREATMENT OF CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION (CTEPH): A PHASE 3 LONG-TERM EXTENSION STUDY (CHEST-2)

Poster Sessions Friday, March 1

5th WORLD SYMPOSIUM ON PULMONARY HYPERTENSION

Poster Sessions Friday, March 1

PULMONARY EDEMA AFTER ANGIOPLASTY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION

INTERLEUKINE-6 IS A USEFUL MARKER FOR IDENTIFYING HEMODYNAMICS AND PREDICTING REPERFUSION PULMONARY EDEMA AFTER ANGIOPLASTY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION

ELECTROCARDIOGRAPHY PROPERLY REFLECTS THE CHANGES OF RIGHT-SIDED HEART OVERLOAD IN PATIENTS WITH CHRONIC PULMONARY THROMBOEMBOLISM TREATED BY PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY

CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: IS THERE A PARAMETER ABLE TO PREDICT SURGICAL INDICATION?

RIOCIGUAT FOR THE TREATMENT OF CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION (CTEPH): A PHASE 3 LONG-TERM EXTENSION STUDY (CHEST-2)
PREDICTORS OF LONG-TERM OUTCOME IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION UNDERGOING PULMONARY ENDARTERECTOMY
Skoro-Sajer Nika[1], Marta Gabriella[1], Hlavinc Gerald[1], Gerges Christian[1], Nierlich Patrick[1], Sadushi-Koliçi Roela[2], Klepetko Walter[1], Lang Irene[1]
[1]Department of Cardiothoracic Surgery, Medical University of Vienna – Austria, [2]Department of Internal Medicine, Division of Cardiology, Medical University of Vienna – Austria, [3]Section of Medical Statistics, Medical University of Vienna – Austria

DIFFUSING CAPACITY FOR CARBON MONOXIDE AND MORTALITY IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Suda Rika[1], Tanabe Nobuhiro[1], Kato Fumiaki[1], Sekine Ayumi[1], Ichimura Yasunori[1], Nishimura Rintaro[1], Jujo Takayuki[1], Sugiura Toshihiko[1], Shigeta Ayako[1], Sakao Seichiro[1], Kasahara Yasunori[1], Tatsumi Koichiro[1]
[1]Chiba University, Graduate School of Medicine, Respirology – Chiba – Japan

QUANTITATIVE MEASUREMENT OF CROSS-SECTIONAL AREA OF SMALL PULMONARY VESSELS USING NON-ENHANCED COMPUTED TOMOGRAPHY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Sugiura Toshihiko[1], Tanabe Nobuhiro[1], Matsuura Yukiko[1], Kawata Naoko[1], Yanagawa Noriyuki[1], Sekine Ayumi[1], Suda Rika[1], Jujo Takayuki[1], Sakao Seichiro[1], Kasahara Yasunori[1], Tatsumi Koichiro[1]
[1]Chiba University – Japan

PAH WITH IN SITU THROMBOSIS MIMICKING CTEPH
Taype-Roberts Carmen A[1], Papamatheakis Demosthenes G[1], Poch David[1], Mandel Jess[1], Kerr Kim[1], Auger William R[1], Fedullo Peter F[1], Pretorius Victor[1], Jamieson Stuart W[1], Madani Michael[1], Kim Nick H[1]
[1]University of California San Diego – La Jolla, CA – USA

PREDICTIVE FACTORS FOR SUCCESS OF PULMONARY ENDARTERECTOMY (PEA) IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION (CTEPH)

ROLE OF TRANSTHORACIC ECHOCARDIOGRAPHY IN THE MANAGEMENT OF CTEPH
Ugolotti Tito[1], Serra Walter[1], Cattabiani Maria Alberta[1], Sverzellati Nicola[1], Ardissino Diego[1], Gherli Tiziano[1]
[1]University Hospital – Parma – Italy

PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY IS A USEFUL THERAPEUTIC STRATEGY FOR HIGH RISK PATIENTS OF PULMONARY ENDOARTERECTOMY
Yanagisawa Ryoji[1], Katoaka Masaharu[1], Taguchi Hiroki[1], Shimura Nobuhiko[1], Inami Takumi[1], Ishiguro Haruhisa[1], Kawakami Takashi[1], Tamura Yuichi[1], Hayashida Kentaro[1], Fukuda Keichi[1], Yoshino Hideaki[1], Satoh Toru[1]
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH DUE TO LEFT HEART DISEASES AND CHRONIC LUNG DISEASE</td>
<td>Bachetti Cristina, Mazzanti Gaia, Conficoni Elisa, Terzi Francesca, Rizzo Nicole, Dardi Fabio, Rinaldi Andrea, Gotti Enrico, Albini Alessandra, Monti Enrico, Palazzini Massimiliano, Manes Alessandra, Galiè Nazzareno</td>
<td>Institute of Cardiology, University of Bologna - Italy</td>
</tr>
<tr>
<td>EFFECT OF MEDICAL THERAPY IN PATIENTS WITH OUT-OF-PROPORTION PULMONARY HYPERTENSION DUE TO LUNG DISEASE</td>
<td>Charalampopoulos Athanasios, Howard Luke, Davies Rachel, Gin-Sing Wendy, Tzoulaki Ioanna, Wilkins Martin, Gibbs Simon</td>
<td>Imperial Healthcare NHS Trust-Imperial College - London – United Kingdom</td>
</tr>
<tr>
<td>THE ROLE OF ECHOCARDIOGRAPHY IN THE DISCRIMINATION BETWEEN PRE- AND POST-CAPILLARY HAEMODYNAMICS IN PATIENTS WITH PULMONARY HYPERTENSION AND RISK FACTORS FOR LEFT HEART DISEASE</td>
<td>Domingo Enric, Arredondo Christian, Vazquez Manuel, Nadia Bouteldja, Marti Gerard, Bravo Carlos, Ferrer Rita, Roman Antonio</td>
<td>University Hospital Vall d’Hebron – Barcelona – Spain</td>
</tr>
<tr>
<td>ATTENUATION OF PULMONARY HYPERTENSION SECONDARY TO LEFT VENTRICULAR DYSFUNCTION IN THE RAT BY ACE2 ACTIVATOR</td>
<td>Dai Zen-Kong, Wu Jiunn-Ren, Chen I-Chen, Hsu Jong-Hau</td>
<td>Kaohsiung Medical University Hospital – Kaohsiung – Taiwan, R.O.C.</td>
</tr>
<tr>
<td>IN VIVO ASSESSMENT OF PULMONARY VASCULOPATHY IN PATIENTS WITH SEVERE CHRONIC RESPIRATORY FAILURE EVALUATED FOR LUNG TRANSPLANTATION. DIFFERENCES FROM PULMONARY ARTERIAL HYPERTENSION VASCULOPATHY</td>
<td>Domingo Enric, Arredondo Christian, Vazquez Manuel, Nadia Bouteldja, Marti Gerard, Bravo Carlos, Ferrer Rita, Roman Antonio</td>
<td>University Hospital Vall d’Hebron – Barcelona – Spain</td>
</tr>
<tr>
<td>DIFFERENT PROFILE AND MANAGEMENT BUT SOME OVERLAPPING IN THE TREATMENT OF PATIENTS WITH ARTERIAL AND VENOUS PULMONARY HYPERTENSION. INSIGHTS FROM HINPULSAR REGISTRY</td>
<td>Echazarreta Diego, Coronel Maria, Bonafepe Roberto, Coria Pablo, Nuñez Cristian, Pereira Zini Gustavo, Acevedo Pablo, Alvarez Jorge, Alvarez Soledad, Perna Eduardo</td>
<td>Hospital San Juan de Dios – La Plata – Argentina, Instituto de Cardiología J. F. Cabral – Corrientes – Argentina, Heart Failure and Pulmonary Hypertension Committee – Argentinean Federation of Cardiology – Argentina</td>
</tr>
<tr>
<td>PULMONARY ARTERY PRESSURE AND SERUM BIOMARKERS IN HIGH-ALTITUDE PULMONARY EDEMA SUSCEPTIBLE SUBJECTS DURING ACUTE HYPOXIC EXPOSURE</td>
<td>Hanaoka Masayuki, Droma Yunden, Ikeda Mariko, Kobayashi Nobumitsu, Yasuo Masanori, Urushihata Kazuhisa, Kubo Keishi</td>
<td>Shinshu University School of Medicine – Matsumoto – Japan</td>
</tr>
<tr>
<td>PULMONARY HYPERTENSION (PH) IN IDIOPATHIC PULMONARY FIBROSIS (IPF) DOES NOT INFLUENCE SIX MINUTE WALK DISTANCE (6MWD)</td>
<td>Harari Sergio, Luis Francesca, Cassandro Roberto, Madotto Fabiana, Conti Sara, Cesana Giancarlo</td>
<td>Ospedale San Giuseppe – Milano – Italy, Research Center of Public Health, University of Milan-Bicocca – Monza – Italy</td>
</tr>
<tr>
<td>PATIENTS WITH INTERSTITIAL LUNG DISEASES ASSOCIATED WITH CONNECTIVE TISSUE DISEASES AND PH (IL-CT-PH) SURVIVE MUCH LONGER THAN THOSE WITH IDIOPATHIC PULMONARY FIBROSIS (IPF) AND PULMONARY HYPERTENSION (PH)</td>
<td>Harari Sergio, Luis Francesca, Cassandro Roberto, Madotto Fabiana, Conti Sara, Cesana Giancarlo</td>
<td>Ospedale San Giuseppe – Milan – Italy, Research Center on Public Health, University of Milan-Bicocca – Monza – Italy</td>
</tr>
</tbody>
</table>
ONLY OUT OF PROPORTION PULMONARY HYPERTENSION (PH) AND NOT SLIGHT TO MODERATE PH IS A PROGNOSTIC FACTOR IN IDIOPATHIC PULMONARY FIBROSIS (IPF)

Harari Sergio[1], Luisi Francesca[1], Cassandro Roberto[1], Madotto Fabiana[1], Conti Sara[1], Cesana Giancarlo[2]


INCREASED MAST CELL CHYMASE IN VASCULAR PATHOLOGIES OF PULMONARY HYPERTENSION AND COPD

Kosanovic Duro[1], Dahal Bhola Kumar[1], Peters Dorothée[1], Seimetz Michael[1], Messinger Josef[1], Fischer Yvan[1], Hoffmann Katrin[1], Antel Jochen[1], Husen Bettina[1], Hanke Nina[1], Mayet Stephanie[1], Reiss Irwin[1], Ghofrani Hossein Ardeschiri[1], Weissmann Norbert[1], Grimminger Friedrich[1], Seeger Werner[1], Schermuly Ralph Theo[1]


NPY/NPYR1 AXIS IN HYPOXIA-INDUCED VASCULAR REMODELLING

Kwapisiewska Grażyna[1], Egemenazarov Bakytkin[1], Cnikić Slaven[1], Marsh Leigh M[1], Weissmann Norbert[2], Olschewski Andrea[2]


INFLUENCE OF HEMODYNAMIC SEVERITY AND TARGETED THERAPY ON OUTCOME IN PATIENTS WITH PULMONARY HYPERTENSION AND LUNG DISEASE

Lange Tobias J[1], Baron Miriam[1], Seiler Isabella[1], Arzt Michael[1], Pfeifer Michael[1]

[1]University Medical Center Regensburg – Regensburg – Germany, [2]University Medical Center Regensburg and Donaustauf Hospital – Regensburg / Donaustauf – Germany

POSSIBLE ROLE FOR EXERCISE HEMODYNAMICS IN OTHERWISE UNDETECTABLE DIASTOLIC HEART FAILURE IN PATIENTS SENT TO THE CENTRE WITH SUSPICION OF PULMONARY ARTERIAL HYPERTENSION

Lesný Peter[1], Luknár Milan[1], Varga Ivan[1], Solík Peter[1], Goncalvesova Eva[1]

[1]Heart Failure and Transplant Dep. – Bratislava – Slovakia

PULMONARY HEMODYNAMICS AND RIGHT VENTRICULAR FUNCTION IN HEALTHY LOWLANDERS DURING ACCLIMATIZATION TO HIGH ALTITUDE

Maripov Abdirasit[1], Shermatov Ulani[1], Sarybaev Akpay[1]

[1]National Center of Cardiology and Internal Medicine – Bishkek – Kyrgyzstan

NITRIC OXIDE (NO) IS NOT SUITABLE FOR PULMONARY ARTERY REACTIVITY TEST IN HEART TRANSPLANT CANDIDATES WITH PULMONARY HYPERTENSION DUE TO LEFT VENTRICLE SYSTOLIC DYSFUNCTION

Nowacka Magdalena[1], Kopec Grzegorz[1], Podolec Piotr[1]

[1]Department of Cardiac and Vascular Diseases, John Paul II Hospital – Cracow – Poland

INTRAVENOUS SILDENAFIL IN PATIENTS WITH POST-CAPILLARY PULMONARY HYPERTENSION UNDERGOING MAJOR CARDIAC SURGERY: CLINICAL RESPONSE AND PHARMACOKINETICS

Pasero Daniela[1], Ivaldi Francesca[1], D’Avello Antonello[1], Simiele Marco[1], Checco Luca[1], Grosso Marra Walter[1], Rana Nerlep Kaur[1], Lupo Mario[1], Marra Sebastiano[1], Gaia Fiorenzo[1], Rinaldi Mauro[1]

[1]University of Turin – Italy

TADALAFIL SAFETY IN PULMONARY HYPERTENSION PATIENTS WITH ELEVATED PULMONARY CAPILLARY WEDGE PRESSURE

Rahaghi Franck[1], Agarwal Amitesh[1], Ramakrishna Ravindra[1], Mehta Jinesh[1], Ferrer Gustavo[1], Ramirez Jose[1], Hadeh Anas[1], Oliveira Eduardinho[1], Smoley Laurence[1]

[1]Cleveland Clinic Florida – Weston – United States

PULMONARY HYPERTENSION IN PULMONARY INTENSIVE CARE: CLINICAL EXPERIENCE

Rocca Fernando[1], Pelaia Girolamo[1], Maselli Rosario[1]

[1]Università Magna Graecia di Catanzaro – Italy
Poster Sessions

PULMONARY PULSE TRANSIT TIME (PPTT): A NOVEL ECHOCARDIOGRAPHIC INDICATOR OF VASCULAR CHANGES IN PULMONARY HYPERTENSION (PH) AND PULMONARY FIBROSIS (PF)
Rüdiger Stefan[1], Spiess Jochen[1], Scharnbeck Dominik[1], Radermacher Micheal[1], Markovic Sinisa[1], Stoiber Kathrin M[1], Slatosch Holger[1], Blanta Ioanna[1], Kropf-Sanchen Cornelia[1], Rottbauer Wolfgang[1], Schumann Christian[1], Wibmer Thomas[1]
[1]University Hospital of Ulm ~ Germany

ACUTE HEMODYNAMIC RESPONSE TO INHALED ILOPROST (VENTAVIS™) IN PATIENTS WITH PULMONARY HYPERTENSION OUT OF PROPORTION TO LEFT VENTRICULAR FILLING PRESSURE
Segel Michael[1], Balmor Ronen[1], Yaron Pnina[1], Segev Amit[1], Ben-Dov Issahar[1]
[1]Sheba Medical Center (affiliated to Sackler Medical School, Tel-Aviv University) – Tel HaShomer – Israel

SPECKLE TRACKING ECHOCARDIOGRAPHY AS A SCREENING METHOD FOR PULMONARY HYPERTENSION IN SEVERE COPD
Stream Amanda[1], Rice Jessica[1], Geraci Mark[1], Clark Brendan[1], Dorosz Jennifer[1], Bull Todd[1]
[1]University of Colorado Health Sciences Center – Aurora ~ USA

ROLE OF NO-SGC SIGNALING PATHWAY IN PULMONARY HYPERTENSION DUE TO LEFT HEART FAILURE
Sydykov Akylbek[1], Pradhan Kabita[1], Luitel Himal[1], Arakelyan Karen[1], Weissmann Norbert[1], Seeger Werner[1], Grimminger Friedrich[1], Ghofrani Hossein Ardeschir[1], Schermuly Ralph Theo[1]
[1]Universities of Giessen and Marburg Lung Center (USMLC), Department of Internal Medicine, Member of the German Lung Center (DZL), Justus Liebig University of Giessen ~ Germany

HEMODYNAMIC CHARACTERISTICS IN 100 PATIENTS WITH PULMONARY HYPERTENSION AND INTERSTITIAL LUNG DISEASE
Traclet Julie[1], Reynaud-Gaupert Martine[2], Kiakouama Lize[3], Nunes Hilario[3], Wallaert Benoit[4], Montani David[5], Camara Boubou[6], Khouatra Chahéra[7], Israel-Biet Dominique[7], Marchand-Adam Sylvain[8], Gomez Emmanuel[9], Jais Xavier[10], Launay David[10], Magnier Romain[10], Têtu Laurent[10], Dromer Claire[12], Dury Sandra[12], Zeghmar Sabrina[12], Polazzi Stephanie[13], Humbert Marc[3], Cordier Jean-François[3], Cottin Vincent[13]

INCREASED PULMONARY ARTERIAL PERFUSION MEASURED BY TECHNETIUM-99M IS ASSOCIATED WITH INCREASED PULMONARY ARTERIAL REMODELING IN COPD
**PEDIATRIC PH**

**HIGHER MORBIDITY AND MORTALITY IN PRETERM INFANTS WITH PULMONARY ARTERIAL HYPERTENSION SECONDARY TO BRONCHOPULMONARY DYSPLASIA: A CASE-CONTROL STUDY**
   Aluquin Vincent(1), Sabharwal Geetika(1), Kanhere Mansi(1)
   (1)Penn State Children’s Hospital – Hershey – United States

**CLINICAL PROFILES OF PULMONARY ARTERIAL HYPERTENSION ASSOCIATED TO CONGENITAL HEART DISEASE IN PEDIATRIC AND ADULT SPANISH POPULATION: INSIGHTS FROM REHIPED AND REHAP REGISTRIES**
   Cerro Marin Maria Jesus Del(1-4), Oliver Jose Maria(2), Mendoza Alberto(2), Dos Laura(5), Rodriguez Alejandro(6), Quero Maria Concepcion(6), Escribano Pilar(7)
   (1)La Paz Children’s Hospital – Madrid – Spain, (2)La Paz Hospital – Madrid – Spain, (3)Pediatric Cardiology, Doce De Octubre Hospital – Madrid – Spain, (4)Cardiology, Congenital Heart Disease Unit Hospital Vall D’Hebron-Hospital Santa Pau i Santa Creu – Barcelona – Spain, (5)Pediatric Cardiology, Hospital Gregorio Maranon – Madrid – Spain, (6)Pediatric Cardiology Hospital Ramon y Cajal – Madrid – Spain, (7)Cardiology Department, Hospital Doce De Octubre – Madrid – Spain, (8)Rehiped Investigators – Spain

**EPIDEMIOLOGY AND OUTCOMES OF THE DIFFERENT ETHIOLOGIES OF PULMONARY HYPERTENSION IN PEDIATRICS DATA FROM THE SPANISH REGISTRY FOR PEDIATRIC PULMONARY HYPERTENSION (REHIPED)**
   Cerro Marin Maria Jesus Del(1-7), Sabaté Rotés Anna(1), Quero Maria Concepcion(2), Villagrá Sandra(3), Raposo Ines(4), Moyá Amparo(5), Gil Antonio(6)
   (1)Pediatric Cardiology, La Paz Children’s Hospital – Madrid – Spain, (2)Pediatric Cardiology, Ramon y Cajal Hospital – Madrid – Spain, (3)Pediatric Cardiology, Montepino Regio Hospital – Madrid – Spain, (4)Pediatric Cardiology Complejo Hospital Universitario Juan Canalejo – La Coruña – Spain, (5)Pediatric Cardiology, Hospital Infantil Universidad La Fe Hospital – Valencia – Spain, (6)Pediatric Cardiology, Hospital Universitario de Salamanca – Spain, (7)Rehiped Registry – Spain

**CLINICAL FEATURES, MANAGEMENT AND OUTCOMES OF PEDIATRIC PULMONARY ARTERIAL HYPERTENSION (PAH) IN SPAIN: INSIGHTS FROM THE REHIPED REGISTRY**
   Cerro Marin Maria Jesus Del(1-4), Moreno Antonio(2), Jimenez Soledad(3), Viadero Maria Teresa(4), Siles Ana(5), Iñigo Gemara(6), Conejo Lourdes(7)
   (1)Pediatric Cardiology, Hospital Infantil La Paz – Madrid – Spain, (2)Pediatric Neumology, Hospital Vall D´Hebron ~ Barcelona ~ Spain, (3)Pediatric Cardiology, Hospital General de Segovia La Paz – Segovia – Spain, (4)Department of Pediatrics, Hospital Marques de Valdecilla – Santander – Spain, (5)Pediatric Cardiology, Hospital Puerta de Hierro – Madrid – Spain, (6)Department of Pediatrics Hospital Virgen de La Salud – Toledo – Spain, (7)Pediatric Cardiology, Hospital General Universitario Carlos Haya – Malaga – Spain, (8)Rehiped Registry – Spain

**INCIDENCE AND PREVALENCE OF PULMONARY ARTERIAL HYPERTENSION IN SPANISH PEDIATRIC POPULATION: DATA FROM REHIPED AND REHAP REGISTRIES**
   Cerro Marin Maria Jesus Del(1-4), Dimpna Calila Albert(2), Galvan Jose Luis(3), Gomez Elena(4), Lopez Marta(5), Perin Francesca(6), Escribano Pilar(7)
   (1)Pediatric Cardiology, Hospital Infantil La Paz – Madrid – Spain, (2)Pediatric Cardiology, Hospital Vall D’Hebron – Barcelona – Spain, (3)Pediatric Cardiology, Hospital General de Segovia La Paz – Segovia – Spain, (4)Department of Pediatrics, Hospital Marques de Valdecilla – Santander – Spain, (5)Pediatric Cardiology, Hospital Puerta de Hierro – Madrid – Spain, (6)Department of Pediatrics Hospital Virgen de La Salud – Toledo – Spain, (7)Pediatric Cardiology, Hospital Universitario Carlos Haya – Malaga – Spain, (8)Rehiped Investigators – Spain

**PULMONARY ARTERIAL HYPERTENSION COMPLICATING ARTERIAL SWITCH SURGERY FOR SIMPLE TRANSPONSO OF THE GREAT ARTERIES-PREVALENCE AND OUTCOMES**
   Levy Marilyne(1), Celermajer David(2), Vouhe Pascal(3), Bajolle Fanny(4), Bonnet Damien(5)
   (1)Université Paris Descartes – Paris – France, (2)University of Sydney – Australia

**DISTRIBUTION OF CAUSES AND OUTCOMES OF PULMONARY HYPERTENSION IN A TERTIARY PEDIATRIC HOSPITAL**
   Levy Marilyne(1), Celermajer David(2), Szepanski Isabelle(2), Boudjemline Younes(3), Bonnet Damien(5)
   (1)Université Paris Descartes – Paris – France, (2)University of Sydney – Australia
CIRCULATING ENDOTHELIAL CELL LEVELS DECREASE AFTER VASODILATOR THERAPY AND ARE A BIOMARKER OF WORSENING IN REFRACTORY PEDIATRIC PULMONARY HYPERTENSION
Levy Marilyne[1], Bonnet Damien[1], Gaussem Pascale[1], Smadja David[1]
[1]Université Paris Descartes – Paris – France

WHOLE LUNG TRANSCRIPTOMIC ANALYSIS OF THE EFFECTS OF SILDENAFIL IN A NEONATAL MODEL OF HYPOXIA-INDUCED PULMONARY HYPERTENSION
Moreno Laura[1], Menendez Carmen[1], Barreira Bianca[2], Moreno Enrique[3], Cogolludo Angel[1], Mitchell Jane A[3], Perez-Vizcaino Francisco[3]

HEMODYNAMIC AND GENETIC ANALYSIS IN CHILDREN WITH IDIOPATHIC/HERITABLE AND CONGENITAL HEART DISEASE ASSOCIATED PULMONARY ARTERIAL HYPERTENSION
Pfarr Nicole[6], Fischer Christine[6], Szamalek-Hoegel Justyna[6], Ehlenk Nicola[6], Miera Oliver[6], Schranz Dietmar[6], Gorenflo Matthias[6], Hager Alfred[6], Hinderhofer Katrin[6], Nagel Christian[1], Grünig Ekkehard[6]

RIGHT VENTRICULAR VOLUME RESPONSE TO PRESSURE OVERLOAD IN INFANCY
Yamada Osamu[1], Iwasa Toru[1], Yazaki Satoshi[1], Tsuda Etsuko[1], Ohuchi Hideo[1]
[1]National Cerebral and Cardiovascular Center – Suita – Japan
General Information

Congress Location
Nice Acropolis Congress Center
Risso Boulevard, Nice
Ph: +33 (0)4 93 92 83 00
Fax: +33 (0)4 93 92 82 55

Badges
Participants are requested to wear their congress badge during all sessions, coffee breaks, lunches and social events.

Internet connection
All the congress venue is wifi area – codes to access internet are:
• WIFI name: WSPH2013
• login: wsph2013
• password: wsph2013

Registration and poster desk
The desks will be open during the congress as follows:
Tuesday February 26 from 16.00 to 19.00
Wednesday February 27 from 08.00 to 18.30
Thursday February 28 from 08.00 to 18.30
Friday March 1 from 08.00 to 18.30

Voting System
In the Meeting Hall, attendees will find a voting device fixed to any chair to be used during the scientific sessions. The use of the voting system is reserved to PHYSICIANS employed in Universities or Public Hospitals; the Organizing Secretariat invites any participant to comply with this guideline.

Poster presentation
The poster presenters are invited to be near their posters during lunch time in order to assist attendees interested in having information on their works.
No poster discussion is planned.

Coffee breaks, lunches and welcome cocktail
Coffee breaks and welcome cocktail will be arranged in Agora 2, outside the Meeting Hall.
Lunch will be served in Agora 3, while desserts and coffees in Agora 2, next to the Poster Area.

No accompanying person will be allowed to access coffee breaks and lunches during the working times.
The attendance in the welcome cocktail is admitted by presenting the voucher received before the congress, upon due request.

No particular dress-code is requested for welcome cocktail.
General Information

Information for Speakers, Abstract Presenters and Awarded Young Investigators

**SPEAKERS: Slide center opening times**
Tuesday February 26 from 16.00 to 19.00  
Wednesday February 27 from 08.00 to 18.30  
Thursday February 28 from 08.00 to 18.30  
Friday March 1 from 08.00 to 18.30

Speakers are kindly requested to reach our technical support team in the slide center not later than 2 hours before the respective scheduled session in order to copy the presentation onto the meeting computer. Presentations must be in Power Point and no personal PC will be allowed.

The operating system is Microsoft Windows Office 2007 and converter for Macintosh is available.

If the speech is at 9.00 in the morning, the speaker is kindly invited to deliver his/her slides the day before.

**POSTER PRESENTERS: Mounting and dismounting rules**

Poster presenters will find our staff directly next to the Poster Area (Agora 2) ready to help them to fix their posters. Near the poster desks, they’ll find the Abstracts List ordered by Presenters’ family name – near each name the number of the corresponding panel (where fixing the poster) will be indicated.

In the Poster Area, presenters will find the necessary material to hang their poster.

**Mounting Time:**
Any presenter must fix his/her poster/s on the assigned day from 08.00 to 09.00.
For presentations on February 27, poster mounting is allowed also the day before from 16.00 to 19.00.

**Dismounting Time:**
Any presenter is requested to dismount his/her poster/s at the end of the day of his/her presentation (from 17.30 to 19.00).
At 19.00 of the same day, our Organization will remove and eliminate all posters not dismounted by presenters.

**AWARDED YOUNG INVESTIGATORS**
All winners are kindly requested to be present in Apollon room on February 27 at 17.15 for the Young Investigator Awards Ceremony.
General Information

Transportation
Access to Nice Acropolis Congress Center

From the airport:
Take Bus n° 98 to the station "cathédrale vieille-ville"; then take the tramway towards “Pont Michel”;
Stop at “Acropolis”.

From the train station:
Take the tramway towards “Pont Michel”;
Stop at “Acropolis”.

From the A8 motorway “Provencal”:
Exit n° 50 towards “Nice Centre“ and the “Promenade des Anglais“; then follow the directions for “Acropolis”.

Nice inaugurated the first line of its tramway (T1) on November 24, 2007. The line runs for 8.7 km and stretches from the northern tip of Nice, Nice-Nord (Boulevard Comte de Falicon) to Pont Michel in the Saint Roch neighbourhood. Name of the tramway stop for the congress: ACROPOLIS
Index of Abstracts Authors and Task Forces Members

A
Abman Steven ...................................................... 24
Abraham David ................................................... 52
Abrams Darryl ...................................................... 52
Acedo Adriano ...................................................... 39
Acevedo Pablo ...................................................... 48, 60
Adams-Graves Patricia .......................................... 46
Adão Rui ............................................................. 31
Adatia Ian T .......................................................... 15
Adiv Yochai .......................................................... 23
Agard Christian .................................................... 45
Agarwal Amilesh .................................................. 61
Agenstal Eda .......................................................... 52
Aguilar Rio ........................................................... 44
Ahmad Farhaan .................................................... 44
Ahn Jinhee .............................................................. 55
Aiagner Clemens ..................................................... 51
Airo Paolo ............................................................. 34
Akihisa Yoshieiro ................................................... 39
Akkermans Renate .................................................. 41
Al-hilal Hikmet ...................................................... 51
Alam Shoaib .......................................................... 46, 48
Alazawi William ..................................................... 35
Albajara Luís .......................................................... 42
Albera Carlo ........................................................... 42
Albini Alessandra .................................................... 28, 29, 33, 47, 49, 50, 52, 55, 57, 60
Albrecht Marjorie ..................................................... 31
Alfredo Micheala ...................................................... 14
Alldridge Kalm ....................................................... 38, 39
Alfredi Ghetti Rino .................................................. 41, 50
Allanore Yannick ..................................................... 34
Almeida Ana ........................................................... 36, 48
Almeida Melina ....................................................... 39
Almeida Milena ...................................................... 44
Almenar Luís ........................................................... 45
Alonso Catherina Sergio .......................................... 58
Alquín Virginia ....................................................... 63
Anadregui Emilio ..................................................... 41
Antel Jochen .......................................................... 61
Anthi Anastasia ......................................................... 40
Aoki Tatsuo ............................................................. 55
Aonuma Kazutaka ...................................................... 34
Araki Andrew .......................................................... 48
Arakaki Juntalina ..................................................... 26, 39, 48, 49
Arakelian Karen ...................................................... 62
Archer Stephen L ...................................................... 13, 33
Ardissino Diego ....................................................... 59
Aristimuño Guillermo .............................................. 40, 48
Arkhipova Olga ....................................................... 30
Armaganidis Apostolos ........................................... 40

B
Bacchetta Matteo ...................................................... 52
Bacchetti Cristina .................................................... 28, 29, 47, 49, 50, 52, 55, 57, 60
Bachman Tim ........................................................... 54
Badano Luigi P ......................................................... 37, 38, 46
Badesch David B ..................................................... 18, 47, 53
Bajolle Fanny .......................................................... 63
Balasubramanian Vijay ............................................. 30
Baltiti Zoltan ........................................................... 42
Ballester Marta ......................................................... 41
Balmor Ronen .......................................................... 62
Bals Robert ............................................................. 31, 45
Bandeira Angela ....................................................... 44
Barbara Jean Albert ................................................... 23, 41
Barnet Christopher ................................................... 35, 46, 54
Baron Mirem ............................................................ 61
Barr R Graham ........................................................ 39
Barreira Bianca ......................................................... 64
Barrio Maria Isabel ...................................................... 42
Barst Rolyn J ............................................................ 21, 24, 34, 47
Basini Mariòba ........................................................ 63
Balt Jane ................................................................. 39
Bauer Uta-María ....................................................... 27
Becker-Gruening Tabea ............................................. 24
Beghetti Maurizio ...................................................... 24
Ben-Dov Issahar ...................................................... 62
Benveniste Olivier ..................................................... 45
Benz Roymond ......................................................... 17, 32, 54
Bereziat Efiila ........................................................... 46
Berezne Alice ........................................................... 51
Berger Rolf M F ......................................................... 24
Bergeron Anne ........................................................ 54
Bergfeldt Mannar ..................................................... 45
Berghausen Eva Maria .............................................. 54
Bergot Emmanuel ...................................................... 29, 54
Berk Joachim ............................................................ 54
Bernstein Elena ......................................................... 42
Berzdoff Gerald Jr .................................................... 55
Bertrand Marion ......................................................... 34
Bianco Matteo ........................................................ 42
Biniek Ewa ............................................................... 30
Blanche Stephane ..................................................... 47

C
Blanchet Anne-Sophie ............................................. 36
Blank Norbert .......................................................... 51
Blianta Ioanna ........................................................ 62
Bluemke David ......................................................... 39
Boerrigter Bart ........................................................ 49
Bogaard Herman Jan ............................................... 18, 49
Bonafede Roberto ..................................................... 60
Bonaier Angelika ....................................................... 27
Bonderman Diana ..................................................... 46
Bonneau Olivier ....................................................... 30
Bonnamens Laurent ............................................... 47
Bonnet Damien ......................................................... 24, 47, 63, 64
Bonnet Sébastien ..................................................... 30, 32
Bonini Sara ............................................................. 31
Boonstra Anco ........................................................ 49
Bossone Eduardo ..................................................... 36, 44
Botta Cristian ........................................................... 40
Bouchra Lamia ........................................................ 42
Boudjellime Younes ................................................... 63
Bouloue David ......................................................... 27
Bourdin Arnaud ......................................................... 29, 54
Boutebda Nada ........................................................ 44
Bouvaist Hélène ....................................................... 35, 38
Bras-Silva Carmen .................................................... 31
Bravo Carlos ............................................................ 60
Breartona Metinda .................................................... 32
Breit-Zurita Montserrat ............................................ 42
Breyla-Bonnet Sandra .............................................. 32
Brimiouille Serge ..................................................... 50
Brini Elena ............................................................... 33
Britton Steve ............................................................ 30
Brodie Daniel ........................................................... 52
Brown Jordan ........................................................... 31
Brown Mary Beth ..................................................... 31
Brunner-La Rocca Hans-Peter ................................... 37
Budts Werner ........................................................... 57, 58
Bull Todd M ............................................................ 21, 62
Burger Charles ........................................................ 38
Burgoz Carlo ............................................................ 48
Burton Victoria J ....................................................... 30
Buschel Rachel ......................................................... 52
Butrous Ghazwan ..................................................... 33, 54
Byeon Kyeong Min ................................................... 43

Cabrilla Ines Zimbarro .............................................. 44
Caigas Hector .......................................................... 49
Caldeira Daniel ......................................................... 36
Calisto Carina ........................................................ 48
Camara Bouhou ....................................................... 62
Campbell Malcolm .................................................... 53
Canoa Jorge ............................................................. 55
Cantu Silvia ............................................................. 31, 33
Canuet Mathieu ....................................................... 45, 54
Carignola Renato ..................................................... 42
Carlberg Bo ............................................................. 55
Index of Abstracts Authors and Task Forces Members

Carpentier Wassila 34
Cartaxo Tereza 48
Carton Antonio 42
Cassandro Roberto 60, 61
Castelain Vincent 36
Castillo-Palma Maria J 45, 50, 51
Castro Oswaldo 46
Cattabiani Maria Alberta 59
Cattadori Barbara 57
Celeremajer David S 15, 63
Cerqueira Rui 31
Cerio Marin Maria Jesus Del 42, 63
Cesana Giancarlo 60, 61
Chabot Francois 47
Chadha-Boreham Harbajan 46
Chae Shung Chull 40
Champion Hunter 23, 44, 54
Chan Jonathan 39
Chang Hyuk-Jae 42
Chang Kyong-Sig 40
Chang Sung-A 43
Channick Richard 22
Chauwauvannakit Narumol 43
Chauot Ari 34, 43, 47
Charalampopoulos Athanasios 43, 60
Chauvais Marie Camille 29, 33, 35
Chazova Irina 30
Checco Luca 61
Chelladurai Prakash 27
Chemla Denis 35, 36, 48
Chen Hubert 41
Chen I-Chen 60
Chen Libo 36, 43
Chen Wen-Chi 32
Chin Kcly M 16
Chiocchia Gilles 34
Chirio Claudio 42
Cho Kyung-Im 40
Choi Eui-Young 40
Choi Jung Hyun 55
Chung Lorinda 30
Chung Namsik 30
Chung Wendy K 14, 34
Chung Wook-Jin 40
Cimbaro Canella Juan 48
Ciuculant Lorenciana 30
Clapp Lucie 52
Clark Brandon 62
Claussen Martin 44
Coghlan John Gerard 23, 35, 46
Cogilodotto Angel 64
Cohen Mylan 39
Cohen-Kaminsky Sylvia 27, 30, 32, 33, 43
Condiffe Robin A 18
Condejo Lourdes 63
Conforti Elisa 28, 29, 47, 50, 52, 55, 57, 60
Conti Sara 60, 61
Cook Todd 31
Cordier Jean-Francois 36, 62
Coria Pablo 60
Coronel Maria 40, 41, 48, 60
Corrigan Carolyn 37
Corris Paul A 19, 47
Cortina Jose Maria 58
Cotrim Carlos 36
Cottin Vincent 23, 28, 36, 62
Coullet Florence 28, 34
Courard Pierre-Yves 36
Courtier Anais 32
Courtman David 31
Couturaud Francis 56, 59
Crackett Rachel 47
Cramb Cathrina 30
Creuze Nicolas 36
Crnkovic Steven 61
Cruz Irnis 36
Culaza Gyirgyi 37
Cucchin Umberto 38
Cucci Anthony 31
Calufic Djordje 52
Curro Maria 40
Cusi Daniele 34
Cuttica Michael 43
Cuvelier Antoine 42
D’Andrea Antonello 36, 44
D’Armini Andrea Maria 56, 57, 58
D’Avolio Antonio 61
Dabral Swati 27, 36
Dahal Bhola Kumar 27, 30, 31, 32, 61
Dai Zen-Kong 60
Dal Bianco Lucia 37, 38, 46
Dard Fabio 28, 29, 47, 49, 58, 52, 55, 57, 60
Bartelleve Philippe 22, 27, 51, 59
Dara Valeria 42
Davies Rachel 43, 60
Dawson David 44
Day Margaret 47
De Keulenaer Gilles 31
De Lazzari Manuel 46
De Man Frances S 28, 33, 38
De Marco Teresa 23, 35, 54
De Perrot Marc 53
De Ravel Thomy J L 34
Decante Benoit 27
Degani Antonella 57
Deiros Lucia 42
Delcroix Marion 22, 34, 48, 53, 57, 58
Delhaas Tamm 37
Delisser Horace 31
Dell’Ariello Sophie 35
Denton Christopher P 15, 46
Derumeaux Genevieve 36
Descatha Alexis 47
Destefanis Paola 42
Devilliers Herve 45
Dewachter Celine 50
Dewachter Laurence 50
Dib Alfred 36
Diveil Celine 45
Dimmer Stefan 27, 31
Dimpna Callia Albert 63
Distler Oliver 42, 46
Dobbels Fabienne 53
Dobele Carmen 27, 31
Dollberg Martin 46
Domingo Eric 44, 60
Domingues Ana Lucia 44
Dorfmuller Peter 13, 27, 28, 30, 32, 33, 34, 35, 38
Dominis Christian 46
Donos Jennifer 62
Dos Laura 45, 63
Dos Remedios Cris 38
Droma Yunden 33, 60
Drometer Claire 29, 62
Duggan Nicholas 30
Dumas Sebastien J 30
Dumitrescu Daniel 43
Dupuis Jocelyn 44
Dupuy Anne-Marie 34
Durand Herve 48
Duriguel Giuliana 44
Dury Sandra 62
Dusek Alex 53
Dusek Ladislav 51
Dweik Raed 45
Dymarkowski Steven 57, 58
Echazarrate Andres 40
Echazarrate Diego 40, 41, 60
Eddahabi Saadia 27, 33
Edelman Kathy 54
Eder Veronika 52
Egemenzarov Bakybek 61
Ehiken Nicola 34, 36, 44, 50, 51, 56, 64
El-Gazzarly Amny N 21
Elas L 41
Elliot C Gregory 14, 47
Eniyamew Es Ostuwa 36
Ermacora Davide 37, 38
Ezurum Serpl C 13
Escribano Pilar 17, 41, 45, 58, 63
Esposito Roberta 38
Euberg Dirk 30
Ewert Ralf 52
Eynes Melanie 28, 34
<table>
<thead>
<tr>
<th>Author</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fadot Elie</td>
<td>27, 32, 33, 51, 59</td>
</tr>
<tr>
<td>Fandos Maria Jose</td>
<td>41</td>
</tr>
<tr>
<td>Farber Harrison W</td>
<td>47</td>
</tr>
<tr>
<td>Farha Samar</td>
<td>45</td>
</tr>
<tr>
<td>Favaloro Liliana</td>
<td>55</td>
</tr>
<tr>
<td>Favaloro Roberto</td>
<td>55</td>
</tr>
<tr>
<td>Fedullo Peter F</td>
<td>55, 56, 57, 59</td>
</tr>
<tr>
<td>Fenstad Eric</td>
<td>28</td>
</tr>
<tr>
<td>Fernandes Timothy</td>
<td>55</td>
</tr>
<tr>
<td>Ferrari Pisana</td>
<td>50</td>
</tr>
<tr>
<td>Ferreira Rita</td>
<td>44</td>
</tr>
<tr>
<td>Ferrer Gustavo</td>
<td>61</td>
</tr>
<tr>
<td>Ferrer Rita</td>
<td>60</td>
</tr>
<tr>
<td>Ferretti Gilbert</td>
<td>35</td>
</tr>
<tr>
<td>Fesler Pierre</td>
<td>58</td>
</tr>
<tr>
<td>Figureiredo Priscila</td>
<td>49</td>
</tr>
<tr>
<td>Filipe-Santos Orchidee</td>
<td>32</td>
</tr>
<tr>
<td>Fine Newell</td>
<td>36</td>
</tr>
<tr>
<td>Fish Luder</td>
<td>32</td>
</tr>
<tr>
<td>Finnerty Vincent</td>
<td>44</td>
</tr>
<tr>
<td>Fischer Alain</td>
<td>47</td>
</tr>
<tr>
<td>Fischer Ariane</td>
<td>27</td>
</tr>
<tr>
<td>Fischer Araya</td>
<td>41, 50</td>
</tr>
<tr>
<td>Fischer Christine</td>
<td>34, 36, 44, 50, 51, 56, 64</td>
</tr>
<tr>
<td>Fischer Ivan</td>
<td>61</td>
</tr>
<tr>
<td>Fisher Amanda</td>
<td>31</td>
</tr>
<tr>
<td>Fisher Andreow</td>
<td>47</td>
</tr>
<tr>
<td>Fleitas Paez Maximiliano</td>
<td>41</td>
</tr>
<tr>
<td>Fleming Tom</td>
<td>21, 24</td>
</tr>
<tr>
<td>Flox Camacho Angela</td>
<td>58</td>
</tr>
<tr>
<td>Forlisa Paul R</td>
<td>16</td>
</tr>
<tr>
<td>Foster Graham R</td>
<td>35</td>
</tr>
<tr>
<td>Fournier Alain</td>
<td>44</td>
</tr>
<tr>
<td>Fowler Robin</td>
<td>44, 53</td>
</tr>
<tr>
<td>Fox Kelly</td>
<td>33</td>
</tr>
<tr>
<td>Frachon Irène</td>
<td>29</td>
</tr>
<tr>
<td>François Charlene</td>
<td>33</td>
</tr>
<tr>
<td>Frantz Christian</td>
<td>31</td>
</tr>
<tr>
<td>Frantz Robert</td>
<td>18, 28, 36, 43</td>
</tr>
<tr>
<td>Frantzskaki Frantzeska</td>
<td>40</td>
</tr>
<tr>
<td>Frisch Arno</td>
<td>51, 58</td>
</tr>
<tr>
<td>Froeschli Uwe</td>
<td>52</td>
</tr>
<tr>
<td>Frost Adami E</td>
<td>19, 39, 47</td>
</tr>
<tr>
<td>Fuegger Reinhold</td>
<td>52</td>
</tr>
<tr>
<td>Fukuda Kieichi</td>
<td>49, 59</td>
</tr>
<tr>
<td>Fukumoto Yoshihiro</td>
<td>30, 55</td>
</tr>
<tr>
<td>Fuller Julia</td>
<td>47</td>
</tr>
<tr>
<td>Furst Daniel</td>
<td>42</td>
</tr>
<tr>
<td>Gabbay Eli</td>
<td>44, 45, 53</td>
</tr>
<tr>
<td>Gain Kevin</td>
<td>44</td>
</tr>
<tr>
<td>Gaine Sean Patrick</td>
<td>20</td>
</tr>
<tr>
<td>Galli Florenzo</td>
<td>61</td>
</tr>
<tr>
<td>Galderisi Maurizio</td>
<td>38</td>
</tr>
<tr>
<td>Galliè Nazzareno</td>
<td>19, 23, 28, 29, 31, 33, 47, 49, 50, 51, 52, 55, 57, 60</td>
</tr>
<tr>
<td>Gallego Pastora</td>
<td>45</td>
</tr>
<tr>
<td>Galletti Margherita</td>
<td>31, 33</td>
</tr>
<tr>
<td>Galloway-Phillips Neil</td>
<td>35</td>
</tr>
<tr>
<td>Gambañaray Natalia</td>
<td>32</td>
</tr>
<tr>
<td>Garcia Brasca Daniela</td>
<td>40</td>
</tr>
<tr>
<td>Garcia Edgar</td>
<td>48</td>
</tr>
<tr>
<td>Garcia Gilles</td>
<td>28, 37, 43, 47</td>
</tr>
<tr>
<td>Garcia Walter</td>
<td>48</td>
</tr>
<tr>
<td>Garcia-Hernández Francisco J</td>
<td>50, 51</td>
</tr>
<tr>
<td>Garrido-Lestache Elvira Barrios</td>
<td>58</td>
</tr>
<tr>
<td>Gatzoulis Michael A</td>
<td>15</td>
</tr>
<tr>
<td>Gausee Andrew</td>
<td>64</td>
</tr>
<tr>
<td>Gavilan Jose Luis</td>
<td>63</td>
</tr>
<tr>
<td>Gazzana Marcello</td>
<td>44</td>
</tr>
<tr>
<td>Gegguchadze Ramaz</td>
<td>54</td>
</tr>
<tr>
<td>Geirán Odd</td>
<td>55</td>
</tr>
<tr>
<td>George Patricia</td>
<td>44</td>
</tr>
<tr>
<td>George Peter M</td>
<td>35</td>
</tr>
<tr>
<td>Geraci Marc W</td>
<td>14, 62</td>
</tr>
<tr>
<td>Gerges Christian</td>
<td>59</td>
</tr>
<tr>
<td>Gerhardt Felix</td>
<td>43</td>
</tr>
<tr>
<td>Germain Marine</td>
<td>34</td>
</tr>
<tr>
<td>Gewitz Michael</td>
<td>31</td>
</tr>
<tr>
<td>Ghannim Bahl</td>
<td>51, 57</td>
</tr>
<tr>
<td>Ghertil Tiziano</td>
<td>59</td>
</tr>
<tr>
<td>Ghio Stefano</td>
<td>23, 67</td>
</tr>
<tr>
<td>Ghofrani Hesssein Ardeschir</td>
<td>15, 21, 27, 30, 31, 32, 33, 36, 51, 54, 58, 61, 62</td>
</tr>
<tr>
<td>Gibbs Simon</td>
<td>23, 43, 44, 60</td>
</tr>
<tr>
<td>Gil Antonio</td>
<td>63</td>
</tr>
<tr>
<td>Gillaizeau Florence</td>
<td>56</td>
</tr>
<tr>
<td>Gin-Sing Wendy</td>
<td>43, 60</td>
</tr>
<tr>
<td>Girerd Barbara</td>
<td>27, 28, 32, 33, 34, 43, 48, 54</td>
</tr>
<tr>
<td>Girgis Reda E</td>
<td>19</td>
</tr>
<tr>
<td>Gladwin Mark</td>
<td>44, 46, 54</td>
</tr>
<tr>
<td>Glen Clarisse</td>
<td>40</td>
</tr>
<tr>
<td>Gerard Jean-charles</td>
<td>36</td>
</tr>
<tr>
<td>Godara Geeta</td>
<td>39</td>
</tr>
<tr>
<td>Goggi Claudio</td>
<td>57</td>
</tr>
<tr>
<td>Golick Mark</td>
<td>41</td>
</tr>
<tr>
<td>Gomberg-Mailland Mardi I</td>
<td>21</td>
</tr>
<tr>
<td>Gómez Carmen</td>
<td>55</td>
</tr>
<tr>
<td>Gomez Elena</td>
<td>63</td>
</tr>
<tr>
<td>Gomez Emmanuel</td>
<td>43, 47, 62</td>
</tr>
<tr>
<td>Goméz Sánchez Miguel Angel</td>
<td>15, 58</td>
</tr>
<tr>
<td>Gonçalves Susana</td>
<td>48</td>
</tr>
<tr>
<td>Gonçalvesova Eva</td>
<td>35, 47, 51, 61</td>
</tr>
<tr>
<td>Goncharov Dmitry</td>
<td>31</td>
</tr>
<tr>
<td>Goncharova Elena</td>
<td>31</td>
</tr>
<tr>
<td>Goncharova Natalia</td>
<td>40, 46</td>
</tr>
<tr>
<td>González-León Rocío</td>
<td>50, 51</td>
</tr>
<tr>
<td>González-Pulido Cristina</td>
<td>50</td>
</tr>
<tr>
<td>Gordon Jessica</td>
<td>40, 42</td>
</tr>
<tr>
<td>Gordon Terry</td>
<td>32</td>
</tr>
<tr>
<td>Gorenflo Matthias</td>
<td>50, 64</td>
</tr>
<tr>
<td>Gotti Enrico</td>
<td>28, 29, 47, 48, 50, 52, 55, 57, 60</td>
</tr>
<tr>
<td>Gouadon Edie</td>
<td>30</td>
</tr>
<tr>
<td>Gräber Stephan</td>
<td>31</td>
</tr>
<tr>
<td>Granton John</td>
<td>19, 39, 53</td>
</tr>
<tr>
<td>Granzer Henk</td>
<td>38</td>
</tr>
<tr>
<td>Grapua Julia</td>
<td>44</td>
</tr>
<tr>
<td>Grignola Juan</td>
<td>44</td>
</tr>
<tr>
<td>Grimminge Friedrich</td>
<td>21, 27, 30, 31, 32, 33, 36, 51, 54, 58, 61, 62</td>
</tr>
<tr>
<td>Grigori Paola</td>
<td>38</td>
</tr>
<tr>
<td>Grosso Marra Walter</td>
<td>61</td>
</tr>
<tr>
<td>Gruning Elkehard</td>
<td>14, 34, 36, 44, 46, 50, 51, 56, 64</td>
</tr>
<tr>
<td>Gruning Gabrielle</td>
<td>32</td>
</tr>
<tr>
<td>Gude Enar</td>
<td>55</td>
</tr>
<tr>
<td>Guérin Laurent</td>
<td>56</td>
</tr>
<tr>
<td>Guifardt Alessandro</td>
<td>33</td>
</tr>
<tr>
<td>Guignabert Christophe</td>
<td>13, 27, 30, 33, 34, 38, 54</td>
</tr>
<tr>
<td>Guilhaire Julien</td>
<td>27</td>
</tr>
<tr>
<td>Guillaudt Anne</td>
<td>43, 47</td>
</tr>
<tr>
<td>Guillemin Loic</td>
<td>50, 51</td>
</tr>
<tr>
<td>Guja Karthik</td>
<td>37</td>
</tr>
<tr>
<td>Günther Sven</td>
<td>35, 42, 48, 49, 52, 54, 59</td>
</tr>
<tr>
<td>Guth Stefan</td>
<td>56</td>
</tr>
<tr>
<td>Gullerenz-Iannara Federico</td>
<td>42</td>
</tr>
<tr>
<td>Habib Gilbert</td>
<td>29</td>
</tr>
<tr>
<td>Hachulla Eric</td>
<td>45, 51</td>
</tr>
<tr>
<td>Hacobian Melkon</td>
<td>39</td>
</tr>
<tr>
<td>Haddad François</td>
<td>16</td>
</tr>
<tr>
<td>Hadeh Anas</td>
<td>61</td>
</tr>
<tr>
<td>Hager Alfred</td>
<td>50, 64</td>
</tr>
<tr>
<td>Haick Hossam</td>
<td>43</td>
</tr>
<tr>
<td>Halank Michael</td>
<td>36, 50, 56</td>
</tr>
<tr>
<td>Hall Kathleen</td>
<td>38</td>
</tr>
<tr>
<td>Hamer Okka W</td>
<td>46</td>
</tr>
<tr>
<td>Hamidou Mohamed</td>
<td>45</td>
</tr>
<tr>
<td>Hammel Jeffrey</td>
<td>47</td>
</tr>
<tr>
<td>Hanokka Masayuki</td>
<td>33, 60</td>
</tr>
<tr>
<td>Handoko M Louis</td>
<td>38</td>
</tr>
<tr>
<td>Hanke Nina</td>
<td>61</td>
</tr>
<tr>
<td>Hannon Tara</td>
<td>45</td>
</tr>
<tr>
<td>Harari Sergio</td>
<td>60, 61</td>
</tr>
<tr>
<td>Harding Clarke</td>
<td>30</td>
</tr>
<tr>
<td>Harel François</td>
<td>44</td>
</tr>
<tr>
<td>Harris Julie</td>
<td>38</td>
</tr>
<tr>
<td>Harrison Anne-Marie</td>
<td>45</td>
</tr>
<tr>
<td>Hassoun Paul M</td>
<td>16</td>
</tr>
<tr>
<td>Haurigot Pillar</td>
<td>41</td>
</tr>
<tr>
<td>Haworth Busk Sheila Glennis</td>
<td>24</td>
</tr>
</tbody>
</table>
Index of Abstracts Authors and Task Forces Members

L

La Vine David 56
Ladero Frédéric 46
Lahr Tim 31
Lai Ginny P 47
Lambert Jean-Charles 34
Lamblin Nicolas 29
Landzaat Lindy 52
Lanzberg Michael 15
Lang Georg 51
Lang Irene 22, 51, 52, 57, 59
Lang Michaela 36
Langhe Tobias J 46, 61
Langbein David 18, 35, 51
Lapi Francesco 35
Lara Antonio 45
Larsen Carolyn 28, 43
Larsen Flemming 41, 55
Lathrop Mark 34
Launay David 45, 51, 62
Laveneziana Pierantonio 28, 37, 47
Lavoie Jessie 31
Lazarz Maria 45
Le Hress Morane 27
Le Pavec Jérôme 47, 51
Le Rachel 28, 43
Lecez Florence 33
Lee Augustine 38
Lee Shin-Sok 41
Leite Luiz 44
Leite-Moreira Adelino 31
Leelakiss John 40
Lema Louis 40
León-Guisado Antonio 51
Lescano Adrian 40
Lesny Peter 35, 47, 51, 61
Letermeur Luc 34
Leter Edward 49
Letourneau Myriam 44
Leuchte Hannu H 20
Leung Steve 48
Levac Xavier 44
Levy Marilyne 34, 47, 63, 64
Lichtblau Mona 50, 51
Lim Jiao 39
Lin Grace 56
Ljuska Branislav 51
Lobo Marquez Lilia 41
Lombardi Sandra 41, 50
Longhi Anthony 54
Lopes Liliama 36
Lopez Marta 63
López Reyes Raquel 41
López-Holládón José 50
López-Meseguer Manuel 41
López-Pardo Francisco 51
Lordan Jim 47

M

Losonlycy György 37
Lourenço Maria 36
Lourenço André 31
Lövgren Ekmanhag Björn 41
Lovric Milica 37
Lloyd James E 14, 34
Lu Catherine 53
Luís Francesca 60, 61
Luilletimal 31, 62
Lukáni 35, 47, 51, 61
Lumens Joost 16, 37
Lupio Mario 61
Lutz Kati 32

Mattucci Gabriella 56, 57
Mattucci-Girlanda Marco 34
Mauguenne Svitlana 34
Mayer Eckhard 22, 56, 58
Mayet Stephanie 61
Mazzanti Gaia 28, 29, 33, 47, 48, 50, 52, 55, 57, 60
McCollister Deborah 41
McGloughlin Dana 35, 54
McGoon Michael D 17, 19, 28, 43, 47
McLaughlin Valerie V 19, 20, 46
Mcearn Callistronia 62
Mehtari Aleem 46
Mehta Jinsh 61
Mehta Sanjay 20
Melatia Thais 39
Mendes Adriano 48
Mendes Eliana S 37
Mendes Maria 31
Mendes-Ferreira Pedro 31
Mendoza Alberto 63
Menendez Carmen 64
Menendez Juan José 42
Menendez Maria Angeles 62
Mercier Olaf 27, 32, 42, 51, 59
Mercy Magalie 47
Mertens Alessandra 44
Messina Carolina 28
Messinger Joseph 61
Meyer Alan 45
Meyer Guy 56
Meyns Bart 57, 58
Michelakis Evangelos 13
Miera Oliver 50, 64
Miles George 46
Miller David P 17, 47
Milosavjevic Tomica 52
Mina Omar 41, 45
Mininni Caterina 46, 48
Mitra Deepika 37
Mitchell Jane A 31, 35, 64
Mitra Nandita 39
Miura Yukata 55
Miyazaki Katsunori 58
Miyamichi-Yamamoto Saori 55
Miyaoichi Takashi 34
Mizia-Steckana Grazyna 51
Mizoguchi Hironori 58
Mizuzaki Taro 43
Moiseeva Olga 40, 46
Molano Carlos 42
Molina Luis 41
Montabone Erika 42
Montani David 27, 28, 29, 32, 33, 34, 35, 37, 42
43, 45, 47, 48, 52, 54, 59, 62
Monteo-Matoos Enrique 51
Montesinos Cristian 57
Monti Enrico 28, 29, 47, 49, 50, 52, 55, 57, 60
Morales Pilar 41
Moreno Antonio 63
Moreno Enrique 64
<table>
<thead>
<tr>
<th>Name</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morena Laura</td>
<td>64</td>
</tr>
<tr>
<td>Morrell Nicholas W</td>
<td>13, 31, 35</td>
</tr>
<tr>
<td>Morris Norman</td>
<td>38</td>
</tr>
<tr>
<td>Morshuis Wim</td>
<td>57</td>
</tr>
<tr>
<td>Morsoloni Marco</td>
<td>56, 57</td>
</tr>
<tr>
<td>Mouthon Luc</td>
<td>51</td>
</tr>
<tr>
<td>Moyà Amaro</td>
<td>63</td>
</tr>
<tr>
<td>Muccino David</td>
<td>41</td>
</tr>
<tr>
<td>Muir Jean-François</td>
<td>42</td>
</tr>
<tr>
<td>Mullens Mary</td>
<td>41</td>
</tr>
<tr>
<td>Müller-Ladner Ulf</td>
<td>34, 46</td>
</tr>
<tr>
<td>Munemasa Mitsuuru</td>
<td>58</td>
</tr>
<tr>
<td>Muraili Srinivas</td>
<td>32, 54</td>
</tr>
<tr>
<td>Muraru Denisa</td>
<td>37, 38, 46</td>
</tr>
<tr>
<td>Musset Sacha</td>
<td>27, 51, 59</td>
</tr>
<tr>
<td>Ninio Ewa</td>
<td>48</td>
</tr>
<tr>
<td>Nihoyannopoulos</td>
<td>44</td>
</tr>
<tr>
<td>Nichols William</td>
<td>32</td>
</tr>
<tr>
<td>Ngoc Khiem</td>
<td>39</td>
</tr>
<tr>
<td>Ngoc Lin</td>
<td>41</td>
</tr>
<tr>
<td>Neder J Albert</td>
<td>49</td>
</tr>
<tr>
<td>Nery Luzy</td>
<td>48</td>
</tr>
<tr>
<td>Nesser Hans-Joachim</td>
<td>52</td>
</tr>
<tr>
<td>Neumann Julia</td>
<td>31</td>
</tr>
<tr>
<td>Neuser Dieter</td>
<td>51, 58</td>
</tr>
<tr>
<td>Newman John</td>
<td>14, 16, 33</td>
</tr>
<tr>
<td>Nguyen Kim-Lien</td>
<td>48</td>
</tr>
<tr>
<td>Nguyen Quang Trinh</td>
<td>44</td>
</tr>
<tr>
<td>Nicholas William</td>
<td>32</td>
</tr>
<tr>
<td>Nicola Catalin</td>
<td>30</td>
</tr>
<tr>
<td>Nierlich Patrick</td>
<td>51, 57, 59</td>
</tr>
<tr>
<td>Nihoyannopoulosos Petros</td>
<td>44</td>
</tr>
<tr>
<td>Ninio Ewa</td>
<td>48</td>
</tr>
<tr>
<td>Nishihara Rintaro</td>
<td>49, 53, 59</td>
</tr>
<tr>
<td>Nochikota Kotaro</td>
<td>55</td>
</tr>
<tr>
<td>Novelli Enrico</td>
<td>44</td>
</tr>
<tr>
<td>Nowacka Magdalena</td>
<td>51, 61</td>
</tr>
<tr>
<td>Nunes Diogo António</td>
<td>48</td>
</tr>
<tr>
<td>Nunes Hilario</td>
<td>45, 62</td>
</tr>
<tr>
<td>Nuñez Cristian</td>
<td>60</td>
</tr>
<tr>
<td>Ochan Kilama Michael</td>
<td>51</td>
</tr>
<tr>
<td>Ogawa Aiko</td>
<td>48, 58</td>
</tr>
<tr>
<td>Ogino Hitoshi</td>
<td>22</td>
</tr>
<tr>
<td>Uhuchi Hideo</td>
<td>64</td>
</tr>
<tr>
<td>Oliveira Eduardo</td>
<td>61</td>
</tr>
<tr>
<td>Oliveira Rudolf</td>
<td>28</td>
</tr>
<tr>
<td>Oliveira Siena</td>
<td>48</td>
</tr>
<tr>
<td>Oliver Jose Maria</td>
<td>45, 63</td>
</tr>
<tr>
<td>Oschenewski Andrea</td>
<td>42, 46, 61</td>
</tr>
<tr>
<td>Oschenewski Horst</td>
<td>15, 36, 42, 46, 50</td>
</tr>
<tr>
<td>Oon Tomohiko</td>
<td>49</td>
</tr>
<tr>
<td>Opitz Christian</td>
<td>42, 50</td>
</tr>
<tr>
<td>Orfanos Stylianos E</td>
<td>40</td>
</tr>
<tr>
<td>Orlandon Giulio</td>
<td>56</td>
</tr>
<tr>
<td>Ornston Mark</td>
<td>31</td>
</tr>
<tr>
<td>Ota Maxao</td>
<td>33</td>
</tr>
<tr>
<td>Ottenheijm Coen</td>
<td>38</td>
</tr>
<tr>
<td>Oudiz Ronald J</td>
<td>16</td>
</tr>
<tr>
<td>Ouyang Pamela</td>
<td>39</td>
</tr>
<tr>
<td>Ovosen Lynn</td>
<td>35</td>
</tr>
<tr>
<td>Ozaki Shoichi</td>
<td>39</td>
</tr>
<tr>
<td>Pacak Jozef</td>
<td>46</td>
</tr>
<tr>
<td>Padayattil Seena</td>
<td>38</td>
</tr>
<tr>
<td>Palazzini Massimilano</td>
<td>20, 28, 29, 33, 47, 49, 50</td>
</tr>
<tr>
<td>Papamastakesakis Demosthenes G</td>
<td>59</td>
</tr>
<tr>
<td>Papalier Yves</td>
<td>38</td>
</tr>
<tr>
<td>Pappas Athanasiros</td>
<td>40</td>
</tr>
<tr>
<td>Pappas Orestis</td>
<td>32</td>
</tr>
<tr>
<td>Parambl Joseph</td>
<td>45</td>
</tr>
<tr>
<td>Parent Florence</td>
<td>36, 42, 48, 52, 56</td>
</tr>
<tr>
<td>Park Jeong Bae</td>
<td>40</td>
</tr>
<tr>
<td>Park Jong Chon</td>
<td>40</td>
</tr>
<tr>
<td>Park Myung H</td>
<td>20, 41</td>
</tr>
<tr>
<td>Park Seung Woo</td>
<td>43</td>
</tr>
<tr>
<td>Park Sung-Hyun</td>
<td>32</td>
</tr>
<tr>
<td>Parmentier Gilles</td>
<td>32</td>
</tr>
<tr>
<td>Parras Jorge</td>
<td>48</td>
</tr>
<tr>
<td>Pasero Daniela</td>
<td>61</td>
</tr>
<tr>
<td>Passineau Michael</td>
<td>32, 54</td>
</tr>
<tr>
<td>Paucialo Michael</td>
<td>32</td>
</tr>
<tr>
<td>Paul Eido</td>
<td>62</td>
</tr>
<tr>
<td>Paul Clark Mark</td>
<td>31</td>
</tr>
<tr>
<td>Pavlovic Markovic Aleksandra</td>
<td>52</td>
</tr>
<tr>
<td>Peacock Andrew</td>
<td>17</td>
</tr>
<tr>
<td>Paella Girolamo</td>
<td>61</td>
</tr>
<tr>
<td>Pellegreni Carlo</td>
<td>57</td>
</tr>
<tr>
<td>Pelliko Patricia</td>
<td>36</td>
</tr>
<tr>
<td>Peluso Diletta</td>
<td>37, 38, 46</td>
</tr>
<tr>
<td>Peña Pinado Fabiola</td>
<td>56</td>
</tr>
<tr>
<td>Peng Jenny</td>
<td>53</td>
</tr>
<tr>
<td>Pengo Vittorio</td>
<td>22</td>
</tr>
<tr>
<td>Penner Niki</td>
<td>33</td>
</tr>
<tr>
<td>Pepi Mauro</td>
<td>38</td>
</tr>
<tr>
<td>Pepke-Zaba Joanna</td>
<td>17</td>
</tr>
<tr>
<td>Peradejordt Margarita</td>
<td>55</td>
</tr>
<tr>
<td>Perazzolo Marra Martina</td>
<td>37, 38, 46</td>
</tr>
<tr>
<td>Pereira Clara</td>
<td>44</td>
</tr>
<tr>
<td>Pereira Hélder</td>
<td>36</td>
</tr>
<tr>
<td>Pereira Zini Gustavo</td>
<td>30</td>
</tr>
<tr>
<td>Pereiro Stella</td>
<td>31</td>
</tr>
<tr>
<td>Perez Solene</td>
<td>32</td>
</tr>
<tr>
<td>Perez-Itabeta Carol</td>
<td>31</td>
</tr>
<tr>
<td>Perez-Vicaino Francisco</td>
<td>64</td>
</tr>
<tr>
<td>Perin Francesca</td>
<td>63</td>
</tr>
<tr>
<td>Perna Eduardo</td>
<td>40, 41, 48, 80</td>
</tr>
<tr>
<td>Perrin Swanney</td>
<td>35</td>
</tr>
<tr>
<td>Perros Frédéric</td>
<td>27, 30, 32, 33, 54</td>
</tr>
<tr>
<td>Persichini Romain</td>
<td>42</td>
</tr>
<tr>
<td>Pesko Predrag</td>
<td>52</td>
</tr>
<tr>
<td>Peters Dorothea</td>
<td>61</td>
</tr>
<tr>
<td>Petracche Irina</td>
<td>31</td>
</tr>
<tr>
<td>Pfarr Nicole</td>
<td>34, 64</td>
</tr>
<tr>
<td>Pfeifer Michael</td>
<td>46, 61</td>
</tr>
<tr>
<td>Phan Carole</td>
<td>27, 54</td>
</tr>
<tr>
<td>Piam Michael</td>
<td>42</td>
</tr>
<tr>
<td>Pina-Jorini Geraldine</td>
<td>36</td>
</tr>
<tr>
<td>Piscioya Carlos</td>
<td>48</td>
</tr>
<tr>
<td>Pison Christophe</td>
<td>29, 35, 38, 54</td>
</tr>
<tr>
<td>Plácido Rui</td>
<td>48</td>
</tr>
<tr>
<td>Playford David</td>
<td>45</td>
</tr>
<tr>
<td>Plokker Thijs</td>
<td>57</td>
</tr>
<tr>
<td>Poch David</td>
<td>56, 57, 59</td>
</tr>
<tr>
<td>Podolec Piotr</td>
<td>61</td>
</tr>
<tr>
<td>Poddarcy Juraj</td>
<td>51</td>
</tr>
<tr>
<td>Pogozelski Andrew</td>
<td>54</td>
</tr>
<tr>
<td>Poirier Odette</td>
<td>34</td>
</tr>
<tr>
<td>Polazzi Stephanie</td>
<td>62</td>
</tr>
<tr>
<td>Pollet Jonathan</td>
<td>32</td>
</tr>
<tr>
<td>Porns Abby</td>
<td>47</td>
</tr>
<tr>
<td>Poncit-Mongars Raphaëlle</td>
<td>43</td>
</tr>
<tr>
<td>Ponti Francesca</td>
<td>31</td>
</tr>
<tr>
<td>Popandopulo Andrew</td>
<td>54</td>
</tr>
<tr>
<td>Pope Janet</td>
<td>46</td>
</tr>
<tr>
<td>Popovic Dragan</td>
<td>52</td>
</tr>
<tr>
<td>Porras-Antaras Isabel</td>
<td>50</td>
</tr>
<tr>
<td>Post Marco</td>
<td>57, 58</td>
</tr>
<tr>
<td>Potton Leila</td>
<td>38</td>
</tr>
<tr>
<td>Potus François</td>
<td>32</td>
</tr>
<tr>
<td>Poubeau Patrice</td>
<td>29, 54</td>
</tr>
<tr>
<td>Pozzi Roberto</td>
<td>42</td>
</tr>
<tr>
<td>Pradhan Kabilita</td>
<td>62</td>
</tr>
<tr>
<td>Prange Felix</td>
<td>44</td>
</tr>
<tr>
<td>Preradovic Milan</td>
<td>37</td>
</tr>
<tr>
<td>Presson Robert</td>
<td>31</td>
</tr>
<tr>
<td>Preston Ioana R</td>
<td>19</td>
</tr>
<tr>
<td>Pretorius Victor</td>
<td>55, 57, 59</td>
</tr>
<tr>
<td>Prevot Grégoire</td>
<td>29, 54</td>
</tr>
<tr>
<td>Pritchard Rose</td>
<td>37</td>
</tr>
<tr>
<td>Prieur Marion</td>
<td>35</td>
</tr>
<tr>
<td>Provenceher Steeve</td>
<td>16, 32, 43</td>
</tr>
<tr>
<td>Pullido Tomas</td>
<td>17</td>
</tr>
<tr>
<td>Pullamsetti Soni Savai</td>
<td>27, 32, 33, 36, 54</td>
</tr>
</tbody>
</table>
## Index of Abstracts Authors and Task Forces Members

### Q
- Quarock Rozenn 48
- Quero Maria Concepcion 45, 63

### R
- Raamsteboers Aniek Jm 29
- Rabinovitch Marlene 13
- Radermacher Micheal 62
- Ragnarsson Asgrimur 55
- Rahaghi Franck 61
- Rain Silvia 38
- Rainio Maurizio 21
- Raj Usha 24
- Rajic Zoran 52
- Rajkumar Revathi 44
- Rallidis Loukianos 40
- Ramakrishna Ravindra 61
- Ramirez Jose 61
- Ramos Roberts 28, 39, 48, 49
- Rana Nerlep Kaur 61
- Rancourt David 39
- Rankovic Ivan 52
- Raposo Ines 63
- Raymond Nicolas 32
- Reed Anna 31
- Reesink Koen D 37
- Regent Denis 43
- Reiss Irwin 61
- Repolho Debora 36
- Revel Marie-Pierre 56
- Reymond Emilie 35
- Reynaud Gaubert Martine 29, 62
- Ribeiro Adriana 44
- Ribeiro Sônia 48
- Ricard Nicolas 27, 54
- Rice Jessica 62
- Rich Stuart 17, 33
- Riekmaksten Gabriella 34
- Rim Se-Joong 40
- Rinaldi Andrea 28, 29, 47, 49, 50, 52, 55, 57, 60
- Rinaldi Mauro 61
- Risbano Michael 54
- Ritter Christin 32
- Rizzo Nicole 28, 29, 47, 49, 50, 52, 55, 57, 60
- Robalo Martins Susana 48
- Robbins Ivan 15, 33, 34
- Robinson William 30
- Rocca Fernando 61
- Rodriguez Alejandro 63
- Roman Antonio 41, 44, 60
- Rondelet Benoît 50
- Rosenberg Daniel 46
- Rosenkranz Stephan 17, 43, 50, 54, 56
- Rosenzweig Erika 24, 34, 49, 52
- Rothbauer Wolfgang 62
- Rowlands David 30
- Rubin Lewis J 19, 21, 51
- Ruček-Martin Catherine 30
- Rüdiger Stefan 62
- Rudolf Ainars 41
- Rufino Gustavo 41
- Ruiz Cano Maria José 58
- Rupasinges Binara 52
- Rytenius Henrik 50
- Ryžikov Anton 46

### S
- Sabaté Rotés Anna 42, 63
- Sabharwal Geetika 46, 48
- Saddleh Vandana 52, 59
- Sadulak Kökic Raella 60
- Saffar Zezaat 32
- Saggard Rajeev 21
- Said Sami 38
- Saint Raymond Christel 38
- Sakai Satoshi 34
- Sakao Seichiro 45, 49, 53, 59
- Salakhoova Ganna 54
- Salati Maurizio 56
- Samoilenko Ludmila 30
- Sanchez Oliver 28, 56
- Sandroval Julio 19
- Sano Motoaki 49
- Santoro Ciro 38
- Sarais Cristiano 38
- Sarybaev Akpay 61
- Satoh Toru 18, 48, 49, 53, 56, 58, 59
- Satterwhite Lewis 52
- Sattler Caroline 35, 52
- Saunier Carole 38
- Sauvage Nancy 35
- Savai Rajkumar 27, 32
- Savale Laurent 28, 29, 35, 42, 47, 48, 49, 51, 52, 54, 59
- Schambek Dominik 62
- Scheed Axel 32
- Scheiber Christian 36
- Scheidl Sandra 54
- Scherilly Ralph Theo 13, 27, 30, 31, 32, 33, 36, 54, 61, 62
- Schlüter Klaus-Dieter 33
- Schmidranzer Mario 27
- Schötzl Bas 57, 58
- Schranz Dietmar 50, 64
- Schraufnagel Dean 50
- Schreiber Benjamin E 35
- Schulze-Neick Ingram 24
- Schumann Christian 62
- Seale Helen 38
- Seamon Catherine 46, 48
- Seaton David 38, 39
- Seeger Werner 27, 32, 46, 58, 60
- Sefferian Andrei 27, 32, 48, 54
- Segafredo Beatrice 37
- Segel Michael 62
- Segev Amit 62
- Segovia Javier 45
- Seibold James 46
- Seller Isabella 61
- Seller Sarah 45
- Selmeitz Michael 61
- Sekine Ayako 53
- Sekine Ayumi 49, 59
- Selimovic Nedim 41, 45
- Selton-Suby Christine 43, 47
- Sembrat John 44
- Semigran Marc J 23
- Seo Hye-Sun 40
- Sergienko Vladimir 30
- Serra Walter 59
- Seyfarth Hans-Jürgen 36, 56
- Shadly Ahmed Samed 39
- Shhearor Belinda 38, 39
- Shekar Kiran 52
- Shermatov Ulan 61
- Shigeta Ayako 59
- Shimokawa Hiroaki 30, 55
- Shimokawahara Hiroto 58
- Shimura Nobuhiko 53, 56, 58, 59
- Shirai Yuichiro 46
- Shiva Solti 54
- Sibilia Jean 45
- Sidhu Baljinder 30
- Siles Ana 63
- Silva Celia 28, 48
- Silva Doroteia 58
- Silva Marques João 48
- Silvaggio Giuseppe 57
- Silvaer Carlos 44
- Simiele Marco 61
- Similewski Thomas 28, 37, 47
- Simkova Veta 46, 47, 51
- Simon Marc 54
- Simonneau Gérard 15, 23, 27, 28, 29, 32, 34, 35, 36, 37, 42, 43, 46, 47, 48, 49, 51, 52, 54, 56, 58, 59
- Sitbon Olivier 20, 28, 29, 35, 37, 42, 43, 46, 47, 51, 52, 54, 59
- Skoro-Sajer Nika 52, 57, 59
- Skirde Andris 41
- Slatosch Holger 62
- Smadja David 64
- Smolley Laurence 61
- Snell Gregory 62
- Snijder Repke 36
- Sobral Dario 48
- Söderberg Stefan 41, 55
- Sohn De Won 40
- Sokos George 54
- Solik Peter 35, 61
Index of Abstracts Authors and Task Forces Members

A
T

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z
Index of Abstracts Authors and Task Forces Members

Wu Junn-Ren ................................................................. 60
Wu Licun ................................................................. 53
Wuyts Wim ................................................................. 53, 57, 58

Xu Dihua ................................................................. 46

Yaici Azzedine ................................................................. 28
Yamada Akira ................................................................. 39
Yamada Hidehiro ................................................................. 39
Yamada Osamu ................................................................. 28, 64
Yamamoto Tsunehisa ................................................................. 49
Yamasaki Yoshioki ................................................................. 39
Yanagawa Noriyuki ................................................................. 59
Yanagisawa Ryuji ................................................................. 53, 56, 58, 59
Yang Eric ................................................................. 39
Yao Mingyi ................................................................. 44
Yaron Pnina ................................................................. 62
Yasuo Masanori ................................................................. 33, 60
Yazaki Satoshi ................................................................. 64
Yorke Janelle ................................................................. 53
Yoshino Hideaki ................................................................. 53, 56, 58, 59
Youn Ho-Joong ................................................................. 40
Yun Hanna ................................................................. 53

Zalcman Gérard ................................................................. 54
Zamanian Roham ................................................................. 30
Zambelli Filippo ................................................................. 31, 33
Zeghmar Sabrina ................................................................. 62
Zelher Andreas M ................................................................. 27
Zendah Inès ................................................................. 47
Zhao Jean J ................................................................. 54
Zhao Yidan ................................................................. 53
Zoppellaro Giacomo ................................................................. 37
Zuckerman Warren ................................................................. 49
Notes