INTRODUCTION

Traditionally the PH World Symposia series, started in Geneva in 1973 and held every 5 years after the Evian edition in 1998 (Venice 2003, Dana Point 2008, Nice 2013), has marked the progresses in pulmonary hypertension science and has anticipated future developments. The published supplement including the symposia proceedings constitutes a collection of articles among the most cited in this scientific area.

Each new edition of the WSPH series has increased the attendance compared with the previous one, testifying the growing interest of the stakeholders of this area. More than 1200 international physicians attended the 5th WSPH - Nice 2013.

The structure of the 6th WSPH consists in 13 sessions where world specialists in the field, divided in 13 Task Forces, present the results of their studies developed in the last two years and regarding some topic items:

1. Pathology & Pathobiology
2. Genetics & Genomics
3. Pathophysiology of the RV and of the Pulmonary Circulation
4. PH Haemodynamic Definitions and Clinical Classifications and Characteristics of Specific PAH Subgroups
5. Diagnosis of Pulmonary Hypertension
6. Risk Stratification and Medical Therapy of Pulmonary Arterial Hypertension
7. Right Ventricular Assistance and Lung Transplantation
8. Trials Design & New Therapies for Pulmonary Arterial Hypertension
9. PH due to Left Heart Diseases
10. PH due to Chronic Lung Diseases
11. CTEPH
12. Pediatric PH
13. Patients’ Perspectives

The objectives of the 6th WSPH are:
- Review of the major advances in pulmonary vascular science in the past 5 years
- Analyze the available evidence in different basic and clinical areas by expert 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 supplement (prestigious medical journal) to facilitate the implementation of the 6th WSPH conclusions.

Our purpose is to foster with the Symposium constructive scientific interactions and collaborations in the very unique scenario of the bay of Nice.

For the Steering Committee
Nazzareno Galiè
Vallerie V. McLaughlin
Lewis J. Rubin
Gérald Simonneau
The Symposium Steering Committee

- Adaani Frost, MD  
  Houston, TX - USA
- Nazzareno Galiè, MD  
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- Ardeschir H. Ghofrani, MD  
  Giessen, Germany
- Marc Humbert, MD  
  Paris, France
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- Vallerie V. McLaughlin, MD  
  Ann Arbor, MI - USA
- Nicholas W. Morrell, MD  
  Cambridge, UK
- Lewis J. Rubin, MD  
  San Diego, CA - USA
- Werner Seeger, MD  
  Giessen, Germany
- Gérald Simonneau, MD  
  Paris, France
- Rogerio Souza, MD  
  Sao Paulo, Brazil

The Symposium Secretariat

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Map of the Acropolis

CONGRESS CENTER

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REGISTRATION DESKS
AND
ASSOCIATION BOOTHS

SLIDE CENTER

CLOAKROOM

MAIN ENTRANCE

Agora 2

APOLLO
MEETING HALL

MYKONOS BAR
AND RELAX AREA

Agora 3

LUNCH
AREA

LUNCH
AREA
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Scientific Program

TUESDAY, FEBRUARY 27

**APOLLO HALL**

**08.30 - 09.00**

**Opening Ceremony**
Nazzareno Galiè, Bologna ITALY
Vallerie V. McLaughlin, Ann Arbor MI USA
Lewis J. Rubin, La Jolla CA USA
Gérard Simonneau, Paris FRANCE

**09.00 - 10.30**

**Task Force 1. Pathology & Pathobiology**
CHAIR: MARC HUMBERT, Paris FRANCE
CHAIR: MARLENE RABINOVITCH, Stanford CA USA
SEBASTIEN BONNET, Chemin Sainte-Foy CANADA
PETER DORFMÜLLER, Paris FRANCE
CHRISTOPHE GUIGNABERT, Le Plessis Robinson FRANCE
JAMES R. KLINGER, Rhode Island RI USA
MARK R. NICOLLS, Stanford CA USA
ANDREA J. OLSCHEWSKI, Graz AUSTRIA
SONI SAVAI PULLAMSETTI, Bad Nauheim GERMANY
RALPH T. SCHERMULY, Giessen GERMANY
KURT R. STENMARK, Aurora CO USA

Objectives:
- State of the art
- Pathology links between mutations and disease (why low penetrance)
- Genetic counselling and healthy mutation carriers
- Practical application of genomics
- Proposed Future Directions (specific and detailed)

**AGORA 2**

**10.30 - 11.00**

**coffee break**

**APOLLO HALL**

**11.00 - 12.30**

**Task Force 2. Genetics & Genomics**
CHAIR: NICHOLAS W. MORRELL, Cambridge UK
CHAIR: JAMES E. LOYD, Nashville TN USA
MICHEALA A. ALDRED, Indianapolis IN USA
WENDY K. CHUNG, New York NY USA
GREGORY ELLIOTT, Salt Lake City UT USA
WILLIAM NICHOLS, Cincinnati OH USA
FLORENT SOUBRIER, Paris FRANCE
RICHARD C. TREMBATH, London UK

Objectives:
- State of the Art
- Pathobiology links between mutations and disease
- Genetic counselling and healthy mutation carriers
- Practical application of genomics
- Proposed Future Directions (specific and detailed)

**12.30 - 13.00**

**Best Poster Awards Ceremony**

**AGORA 2 and 3**

**13.00 - 14.00**

**Lunch and posters**
Scientific Program

TUESDAY, FEBRUARY 27

APOLLON HALL
14.00-15.30
Task Force 3. Pathophysiology of the RV and of the pulmonary circulation
CHAIR: ROBERT NAJE, Brussels BELGIUM
CHAIR: ANTON VONK NOORDEGRAAF, Amsterdam THE NETHERLANDS
KELLY MARIE CHIN, Dallas TX USA
FRANÇOIS HADDAD, Palo Alto CA USA
PAUL M. HASSOUN, Baltimore MD USA
ANNA R. HEMNES, Nashville TN USA
KELLY MARIE CHIN, Dallas TX USA
FRANÇOIS HADDAD, Palo Alto CA USA
PAUL M. HASSOUN, Baltimore MD USA
ANNA R. HEMNES, Nashville TN USA
KELLY MARIE CHIN, Dallas TX USA
FRANÇOIS HADDAD, Palo Alto CA USA
PAUL M. HASSOUN, Baltimore MD USA
ANNA R. HEMNES, Nashville TN USA
Objectives:
- State of the Art
- Main bench to bedside achievements
- MRI, echocardiography and metabolic studies
- Early detection and irreversibility thresholds of RV dysfunction
- Proposed future directions (specific and detailed)

APOLLON HALL
16.00-17.30
Task Force 4. PH haemodynamic definitions and clinical classifications and characteristics of specific PAH subgroups
CHAIR: GÉRALD SIMONNEAU, Paris FRANCE
CHAIR: ROGERIO SOUZA, Sao Paulo BRAZIL
DAVID S. CELERMAJER, Sydney AUSTRALIA
CHRISTOPHER P. DENTON, London UK
MICHAEL A. GATZOLIS, London UK
MICHAEL KROWKA, Rochester MN USA
DAVID MONTANI, Paris FRANCE
PAUL WILLIAMS, Johannesburg SOUTH AFRICA
Objectives:
- State of the art
- Haemodynamic definitions
- Atypical PAH
- PVOD

17.30 – 19.00
Task Force 5. Diagnosis of pulmonary hypertension
CHAIR: ADAANI FROST, Houston TX USA
CHAIR: ADAM TORBICKI, Otwock POLAND
DAVID B. BADESH, Aurora CO USA
SIMON GIBBS, London UK
DEEPA GOPALAN, London UK
DINESH KHANNA, Ann Arbor MI USA
ALESSANDRA MANES, Bologna ITALY
RONALD J. OUDIZ, Torrance Los Angeles CA USA
TORU SATOH, Tokyo JAPAN
FERNANDO TORRES, Dallas TX USA
Objectives:
- State of the art
- Practice recommendations
- New diagnostic tools?
- Proposed future directions (specific and detailed)
Scientific Program

WEDNESDAY, FEBRUARY 28

APOLLO HALL
09.00-10.30
Task Force 6. Risk stratification and medical therapy of pulmonary arterial hypertension
CHAIR: NAZZARENO GALIÈ, Bologna ITALY
CHAIR: VALLERIE V. MCLAUGHLIN, Ann Arbor MI USA
RICHARD N. CHANNICK, Boston MA USA
ROBERT P. FRANTZ, Rochester MN USA
EKKEHARD GRUNIG, Heidelberg GERMANY
ZHI CHENG JING, Beijing CHINA
IOANA R. PRESTON, Boston MA USA
TOMAS PULIDO, Mexico City MEXICO
ZEENAT SAFDAR, Houston TX USA
YUICHI TAMURA, Tokyo JAPAN

Objectives:
- State of the art
- Practice recommendations
- General measures and non-specific therapy (pregnancy, a/c therapy, rehabilitation)
- Proposed future directions (specific and detailed)

APOLLO HALL
10.30-11.00
coffee break

APOLLO HALL
11.00-12.30
Task Force 7. Right ventricular assistance and lung transplantation
CHAIR: WALTER KLEPETKO, Vienna AUSTRIA
CHAIR: MARIUS HOE佩ER, Hanover GERMANY
RAYMOND L. BENZA, Pittsburgh PA USA
PAUL L. CORRIS, Newcastle Upon Tyne UK
MARC DE PERROT, Toronto CANADA
ELIE FADEL, Paris FRANCE
ANNE M. KEOGH, Sydney AUSTRALIA
CHRISTIAN KUHN, Hanover GERMANY
LAURENT SAVALE, Paris FRANCE

Objectives:
- State of the art
- Current challenges
- Proposed future directions (specific and detailed)

AGORA 2 and 3
12.30-14.00
Lunch and posters

AGORA 2
14.00-15.30
Task Force 8. Trials design and new therapies for pulmonary arterial hypertension
CHAIR: LEWIS J. RUBIN, La Jolla CA USA
CHAIR: OLIVIER SITBON, Paris FRANCE
AMANY N. EL-GAZAYERLY, The Hague THE NETHERLANDS
MARDI I. GOMBERG MAITLAND, Falls Church VA USA
JOHN GRANTON, Toronto CANADA
MICHAEL I. LEWIS, Los Angeles CA USA
STEPHEN C. MATHAI, Baltimore MD USA
MAURIZIO RAISIO, Imperia ITALY
NORMAN STOCKBRIDGE, Silver Spring MD USA
MARTIN R. WILKINS, London UK
ROHAM ZAMANIAN, Stanford CA USA

Objectives:
- State of the art
- Current challenges
- Proposed future directions (specific and detailed)

AGORA 2
15.30-16.00
coffee break
Scientific Program

**WEDNESDAY, FEBRUARY 28**

**APOLLON HALL**

16.00-17.30

**Task Force 9. PH due to left heart diseases**

*CHAIR: JEAN LUC VACHIERY, Brussels BELGIUM*

*CHAIR: TERESA DE MARCO, San Francisco CA USA*

*IRINA CHAZOVA, Moscow RUSSIAN FEDERATION*

*JOHN G. COGHLAN, London UK*

*MARCO GUZZI, Milan ITALY*

*IRENE LANG, Vienna AUSTRIA*

*Massediliano Palazzini, Bologna ITALY*

*Stephan H. Rosenkrantz, Cologne GERMANY*

*Ryan J. Tedford, Charleston SC USA*

**Objectives:**

- State of the art
- Current challenges
- Vasoreactivity testing in left heart disease
- Proposed future directions (specific and detailed)

**THURSDAY, MARCH 1**

**APOLLON HALL**

09.00-10.30

**Task Force 10. PH due to chronic lung diseases**

*CHAIR: WERNER SEEGER, Giessen GERMANY*

*CHAIR: STEVEN D. NATHAN, Falls Church VA USA*

*JOAN ALBERT BARBERÀ, Barcelona SPAIN*

*SEAN P. GAINES, Dublin IRELAND*

*SERGIO HARARI, Milan ITALY*

*FERNANDO J. MARTINEZ, Ann Arbor MI USA*

*HORST OLSCHEWSKI, Graz AUSTRIA*

*KAREN M. OLSSON, Hanover GERMANY*

*ANDREW J. PEACOCK, Glasgow UK*

*JOANNA PEPKE-ZABA, Cambridge UK*

*STEEVE PROVENCHER, Chemin Sainte-Foy CANADA*

*NORBERT WEISSMANN, Giessen GERMANY*

**Objectives:**

- State of the art
- Current challenges
- Proposed future directions (specific and detailed)

**AGORA 2**

10.30-11.00

coffee break
Scientific Program

THURSDAY, MARCH 1

APOLLO HALL

11.00-12.30

Task Force 11. CTEPH
CHAIR: ARDESHIR H. GHOFRANI, Giessen GERMANY
CHAIR: NICK H. KIM, La Jolla CA USA
CHAIR: DAVID P. JENKINS, Cambridge UK
MARION DELCROIX, Leuven BELGIUM
XAVIER JAIS, Paris FRANCE
MICHAEL M. MADANI, San Diego CA USA
HIROMI MATSUBARA, Okayama JAPAN
ECKHARD MAYER, Bad Nauheim GERMANY
TAKESHI OGO, Osaka JAPAN
VICTOR F. TAPSON, Los Angeles CA USA

Objectives:
- State of the art
- Current challenges
- Treatment selection
- Proposed future directions (specific and detailed)

12.30-14.00

Lunch and posters

APOLLO HALL

14.00-15.30

Task Force 12. Pediatric PH
CHAIR: ERIKA BERMAN ROENZWEIG, New York NY USA
CHAIR: ROLF M.F. BERGER, Groningen THE NETHERLANDS
STEVEN ABMAN, Aurora CO USA
IAN T. K. ADATIA, Edmonton CANADA
MAURICE BEGHETTI, Geneve SWITZERLAND
DAMIEN BONNET, Paris FRANCE
CHRISTINE GARNETT, Silver Spring MD USA
SHEILA G. HAWORTH BUSK, London UK
DUNBAR IVY, Aurora CO USA

Objectives:
- State of the art
- Current challenges
- Proposed future directions (specific and detailed)

15.30-16.00

Coffee break

APOLLO HALL

16.00-17.30

Task Force 13. Patients’ perspectives
CHAIR: MICHAEL D. MCGOON, Rochester MN USA
CHAIR: PISANA FERRARI, Milan ITALY
IAIN ARMSTRONG, Sheffield UK
MIGDALIA DENIS, Miami FL USA
LUKE S. HOWARD, London UK
SANJAY MEHTA, London CANADA
NORIKO MURAKAMI, Yamatoshi JAPAN
BRAD A. WONG, Silver Spring MD USA

Objectives:
- Mission
- Narrative medicine (disease, illness, sickness)
- Current challenges
- Proposed future directions (specific and detailed)

17.30-18.00

Final remarks and next steps
Nazzareno Galie, Vallerie V. McLaughlin, Gerald Simonneau, Lewis J. Rubin
POSTER SESSIONS

BEST POSTER AWARDS
These posters are exposed for the whole period of the World Symposium: February 27, 28 and March 1

BASIC SCIENCE

1 IMMUNE REPERTOIRE-BASED SIGNATURES IN THE BLOOD AND IN THE LUNG VESSEL-ASSOCIATED TERTIARY LYMPHOID TISSUE IN PRE-CAPILLARY PULMONARY HYPERTENSION
Sylvia Cohen-Kaminsky[4,9], Sébastien J Dumas[2], Isabelle Klingel-Schmitt[2], Matthieu Vocciole[3], Anais Courtier[5], Orchidee Filipe-Santo[8], Gilles Parmentier[6], Solène Perez[4], Caroline Suberbielle[3], Sophie Caillat-Zucman[8], Gerald Simonneau[2], Frederic Perros[3], Marc Humbert[2], Morad Nakhle[9], David Montani[2], Barbara Girerd[2], Andrei Seferian[2], Peter Dorfmüller[1]


2 A GENOME-WIDE ASSOCIATION STUDY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Michael Newnham*[1], Mark Toshner[1], Marta Bleda[1], William Auger[2], Joan Albert Barberà[3], Harm Jan Bogaard[4], Joan Cannon[5], Gerry Coghlan[6], Paul Corris[7], Marion Delcroix[8], John Dunn[9], Heather Elding[9], Simon Gibbs[6], Charaka Hadinnapola[10], David Jenkins[11], David Kiely[12], Irene Lang[13], Eckhard Mayer[13], Choo Ng[13], Andrew Peacock[14], Nicholas Screaton[15], Karen Sheares[16], Michael Simpson[17], Nicole Soranzo[18], Dolores Taboada[19], Richard Trembath[20], Steven Tsui[13], Martin Wilkins[12], Stephen John Wort[16], Stefan Grif[21], Joanna Pepke-Zaba[22], Nicholas Morrell[23]


3 GENETIC ANALYSIS OF 2,156 WHO GROUP 1 PAH PATIENTS ENROLLED IN THE PAH BIOMARKER BANK
Michael Pauciulo*, Katie Lutz, Anna Walsworth, Lisa Martin, William Nichols
Cincinnati Children’s Hospital Medical Center – Cincinnati – United States of America

13
POSTER SESSIONS

BEST POSTER AWARDS
These posters are exposed for the whole period of the World Symposium: February 27, 28 and March 1

CLINICAL SCIENCE

4 REDUCED RIGHT VENTRICULAR CONTRACTILE RESERVE IN PATIENTS WITH SYSTEMIC SCLEROSIS AND BORDERLINE PULMONARY ARTERIAL PRESSURES
Alberto Maria Marra*[1], Christian Nagel[1], Benjamin Egenlauf[1], Satenik Harutyunova[2], Norbert Blank[2], Hanns-Martin Lorenz[2], Christoph Fiehn[2], Nicola Benjamin[1], Christine Fischer[2], Antonio Cittadini[3], Eduardo Bossoni[4], Ekkehard Grünig[1]


5 RISK ASSESSMENT IN SCLERODERMA PATIENTS WITH NEWLY DIAGNOSED PULMONARY ARTERIAL HYPERTENSION: APPLICATION OF THE ESC/ERS RISK PREDICTION MODEL
Valentina Mercurio*, Nermin Diab, Grace Peloquin, Rachel Damico, Todd Kolb, Stephen Mathai, Paul Hassoun
Johns Hopkins University – Baltimore – United States of America

6 IDENTIFICATION OF GENETIC DEFECTS IN PULMONARY ARTERIAL HYPERTENSION BY A NEW GENE PANEL DIAGNOSTIC TOOL
Jie Song*[1], Christina Alessandra Eichstaedt[1], Rebecca Rodriguez Viales[2], Nicola Benjamin[1], Satenik Harutyunova[1], Christine Fischer[1], Katrin Hinderhofer[1], Ekkehard Grünig[1]


7 EFFECTIVENESS OF PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY FOR LONG-TERM OUTCOMES IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Kaori Takeuchi*[2], Takumi Inami[2], Masaharu Kataoka[2], Hanako Kikuchi[2], Shigeta Yohei[2], Ayumi Goda[2], Haruhisa Ishiguro[2], Hideaki Yoshino[2], Toru Sato[2]


8 SEQUENTIAL HYBRID THERAPY WITH PULMONARY ENDARTERECTOMY AND ADDITIONAL BALLOON PULMONARY ANGIOPLASTY FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION.
Kenichi Yanaka*[1], Kazuhiko Nakayama[1], Toshiro Shinke[1], Hiromasa Otake[1], Hiroyuki Kawamoto[1], Yuto Shinkura[1], Naoki Tamada[2], Hiroyuki Onishi[2], Yasunori Tsuibo[1], Seimi Kobayashi[1], Hiroshi Tanaka[2], Yutaka Oktai[2], Noriaki Emoto[1], Ken-Ichi Hirata[1]

[1]Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine – Kobe – Japan; [2]Division of Cardiovascular Surgery, Department of Surgery, Kobe University Graduate School of Medicine – Kobe – Japan

9 EARLY DETECTION OF PULMONARY ARTERIAL HYPERTENSION IN APPARENTLY HEALTHY CHILDREN BY MANDATORY ELECTROCARDIOGRAPHY SCREENING: A JAPANESE NATIONWIDE SURVEY
Mitani Yoshihide*[1], Sawada Hirofumi[1], Nakayama Tomotaka[2], Fukushima Hiroyuki[2], Kogaki Shigetoyo[1], Igarashi Takehiro[1], Ichida Fukiko[2], Ono Yasuo[1], Nakanishi Toshiro[2], Doi Shozaburo[2], Ishikawa Shiro[2], Matsushima Masaki[1], Yamada Osamu[1], Saji Tsutomu[1]

Tuesday, February 27, 2018

PATHOLOGY AND PATHOBIOLOGY

A10 PAH-MIMICKING CHIP TO ELUCIDATE THE DISEASE PATHOGENESIS AND SCREEN ANTI-PAH DRUGS
Fakhrul Ahsan*, Taslim A Al Hilal, Ali Keshavarz
Texas Tech Health Sciences Center – Amarillo – United States of America

A11 URIC ACID CAUSES EXCESSIVE PULMONARY ARTERIAL SMOOTH MUSCLE CELL PROLIFERATION VIA URAT1 UPREGULATION IN PULMONARY ARTERIAL HYPER tutors
Satoshi Akagi*, Tamura Yuichi, Tu Ly, Phan Carole, Thilliet Raphaël, Sekine Ayumi, Huertas Alice, Humbert Marc, Guignabert Christophe
INSERM UMR_S 999 / University of Paris-Sud / Université Paris-Saclay – Le Kremlin-Bicêtre – France

A12 HEPARAN SULFATE IMBALANCE AND FINE STRUCTURAL MODIFICATIONS OF THEIR SULFATION PATTERNS IN LUNG ARE ASSOCIATED WITH FUNCTIONAL EFFECTS IN PRECAPILLARY PULMONARY HYPERTENSION
Patricia Albanese[2], Sébastien Dumas[2], Benoit Ranchoux[2], Sara Shamdani[1], Sandrine Chantepie[1], Emilie Henault[1], David Montani[1], Barbara Gired[1], Peter Dormuller[1], Elie Fadel[1], Philippe Dartevelle[1], Frederic Perros[2], Marc Humbert[2], Dulce Papy-Garcia[1], Sylvia Cohen-Kaminsky[1]

A13 EXPERIMENTAL AND HUMAN PULMONARY VENO-OCCCLUSIVE DISEASE: SIMILARITIES AND DIFFERENCES
Fabrice Antigny[1], Esther Nossent[1], Melanie Lambert[1], Benoit Ranchoux[1], Audrey Courboulin[1], Barbara Girerd[2], Florence Lecerf[1], Aurélie Hautefort[1], Raphaël Thuillet[1], Gerald Simonneau[1], Anton Vonk Noordegraaf[1], Katrien Grünberg[1], Marc Humbert[1], David Montani[1], Peter Dormuller[1], Frederic Perros[1]

A14 FORMINS MAY REGULATE ENDOTHELIAL TO MESCHYMAL TRANSITION VIA VASCULAR ENDOTHELIAL GROWTH FACTOR
Meghan Bernier*, Anil Bhatta, Lewis Rorner
Johns Hopkins School of Medicine – Baltimore – United States of America

A15 NEUTRALIZATION OF CXCL12 REVERSES PULMONARY VASCULAR REMODELING BY DECREASING PULMONARY ARTERIAL SMOOTH MUSCLE CELL ACCUMULATION
Jennifer Bordeneuve[1], Raphaël Thuillet[1], Ly Tu[2], Carole Phan[1], Gérald Simonneau[1], Alice Huertas[1], Marcel Hilbert[2], Dominique Bonnet[2], Marc Humbert[1], Nelly Frossard[1], Christophe Guignabert[1]

A16 COMPREHENSIVE CHARACTERIZATION OF MESENCHYMAL STEM CELLS IN PAH
Kyuheung Byun[4], Hanul Choi[1], Seeyeon Oh[1], Duk-Kyung Kim[1], Duk-Kyung Kim[1], Byeong-Ju Lee[2], Jeongwon Ryu[4], Hae Ok Jung[4], Kevin Chung[4], Hanul Choi[1]

A17 INDOLEAMINE-2,3-DIOXYGENASE AS A POTENTIAL THERAPEUTIC TARGET OF PULMONARY HYPERTENSION
Zongye Cai*, Richard Wb Van Duin, Dirk Jan Duncker, Daphne Merkus
Erasmus MC – Rotterdam – Netherlands

A18 APELIN-13 CO-TREATMENT WITH UMBILICAL CORD BLOOD-DERIVED MESENCHYMAL STEM CELLS IMPROVES ENGRAFTED CELL SURVIVAL AND INHIBITS MACROPHAGE ACTIVATION IN PULMONARY ARTERIAL HYPERTENSION MURINE MODEL
Seungbum Choi[7], Byeong-Ju Lee[2], Seeyeon Oh[1], Kuk Hui Son[7], Duk-Kyung Kim[1], Hanul Choi[2], Jeongwon Ryu[4], Hae Ok Jung[4], Kyunghee Byun[1], Kevin Chung[4]

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Sylvia Cohen-Kaminsky1, Sébastien J Damas2, Gilles Bru-Mercier2, Audrey Courboin3, Marceau Quaredeniers4, Catherine Rucker-Martini5, Fabrice Antigny6, Morad K Nakheili2, Benoit Ranouch2, Eliodie Gouadon3, Maria Candida Vinhas3, Matthieu Vocelle3, Nicolas Raymond2, Peter Dorfmüller2, Elie Fadel2, Frédéric Perros2, Marc Humbert9.
1 INSERM UMR S 999, Hôpital Marie Lannelongue, Univ. Paris-Sud, Faculté de Médecine, Université Paris-Saclay, Le Plessis-Robinson F-92350, AP-HP Assistance Publique-Hôp de Paris, Service de Pneumologie, Hôpital Bicêtre, Le Kremlin-Bicêtre F-94270, France –, 2 Department of Medical Sciences, University Hospital, Uppsala ~ Uppsala ~ Sweden, 3 Department of Medical Biology, University of Cambridge ~ Cambridge ~ United Kingdom, 4 Department of Cardiovascular Research, NYU School of Medicine ~ New York ~ United States of America, 5 Department of Pathology, Université Paris-Sud, Faculté de Médecine, Université Paris-Saclay; AP-HP Assistance Publique-Hôp de Paris, Service de Pneumologie, Hôpital Bicêtre ~ Le Kremlin-Bicêtre ~ France.

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Swati Dabral1, Christian Muecker2, Rajkumar Sawai3, Chanil Valsaraj4, Astrid Wietelmann5, Gregg Simmen6, Christos Samakovlis6, Norbert Weissmann6, Friedrich Grimminger7, Werner Seeger8, Renhard Dammann8, Soni Sawai Pullamsetti9.
1 Max-Planck Institute for heart and lung research – Bad Nauheim – Germany, 2 University of giessen ~ Giessen ~ Germany, 3 Johns Hopkins University School of Medicine ~ Baltimore ~ United States of America, 4 University of giessen ~ Giessen ~ Germany, 5 Johns Hopkins University School of Medicine ~ Baltimore ~ United States of America, 6 University of Uppsala ~ Uppsala ~ Sweden, 7 Department of Medical Sciences, Uppsala University Hospital, Uppsala ~ Uppsala ~ Sweden, 8 Department of Medical Biology, University of Cambridge ~ Cambridge ~ United Kingdom, 9 Department of Women’s and Children’s Health, Obstetrics and Gynaecology, Uppsala University Hospital, Uppsala ~ Uppsala ~ Sweden, 10 Department of Medical Sciences, Uppsala University Hospital, Uppsala ~ Uppsala ~ Sweden.

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Nina Denner8, Craig Docherty1, Katie Yates Harvey1, Ruth Andrew3, Natalie Homer1, Nicholas Morrell1, Margaret Maclean1.
1 University of Glasgow – Glasgow – United Kingdom, 2 University of Edinburgh – Edinburgh – United Kingdom, 3 University of Cambridge – Cambridge ~ United Kingdom.

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Gunnar Einarsson6, Dan Henrohn6, Frida Ulander6, Tord Naess7, Marita Larsson6, Gerhard Wikström6.
6 Department of Women’s and Children’s Health, Obstetrics and Gynaecology, Uppsala University Hospital, Uppsala ~ Uppsala ~ Sweden, 7 Department of Medical Sciences, Uppsala University Hospital, Uppsala ~ Uppsala ~ Sweden.

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Elisabetta Gamiet8,9, Prakash Chelladurai8, Werner Seeger3, Soni Sawai Pullamsetti9.
8,9 (1) Max-Planck Institute for Heart and Lung Research – Bad Nauheim – Germany, 10 Universities of giessen and Marburg Lung Center (UGMLC) – Giessen – Germany.

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Clinical Cardiology, “Maggione della Cantà” Hospital – Novara – Italy.

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1 NYU School of Medicine ~ New York ~ United States of America, 2 Mirna Analytics LLC, 3 Universitätsklinikum Erlangen ~ Erlangen ~ Germany, 4 Université de Genève, Services des Hôpitaux Universitaires de Genève, Hôpital Universitaire de Genève 41, 1211 Geneva 4, Switzerland.

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Hatue Ishibashi-Ueda[1], Keiko Ohhta-Ogo[1], Seiichiro Sakao[2], Nobuhiro Tanabe[2], Tensaku Oka[3], Masanori Kitaichi[3], Norifumi Nakanishi[3], Toru Satoh[3], Hiromi Matsubara[3], Koichiro Tatsumi[2]

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Nobuhiro Kikuchi*[1], Kimio Satoh[2], Ryosuke Yosofu[3], Mohammad Ehsan Al-Manamri[3], Mohammad Abdul Hai Siddique[3], Junichi Omura[3], Taiyu Satoh[4], Masamichi Nogi[4], Shinichi Sunamura[5], Yoshihiro Tanabe[6], Haseki Ishibashi-Ueda*

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Hidekazu Maruyama*[1], Satoshi Sakai[1], Kazutaka Aonuma[1]

[1]Department of Pathology, National Cerebral and Cardiovascular Center ~ Suita, Osaka ~ Japan

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Kazuuya Miyagawa*, Mimi Shi, Pin-I Chen, Jan Hennings, Zhixin Zhao, Mouer Wang, Caiyun Li, Toshie Saito, Shalina Taylor, Silin Sa, Aiqin Cao, Lingli Wang, Michael Snyder, Marlene Rabinsonitch

Stanford University School of Medicine ~ Stanford ~ United States of America

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Natalia Mokina*, Vasiliy Pyatin, Egor Mokin

Samara State Medical University ~ Samara ~ Russian Federation

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Esther Nossent*[1], Antigny Fabrice[2], David Montani[3], Harm Jan Bogaard[3], Maria-Rosa Ghigna[4], Mélanie Lambert[2], Vincent Thomas De Montpréville[5], Barbara Gire[5], Xavier Jaïs[3], Laurent Savale[3], Olaf Mercier[5], Elie Fade[5], Florent Soubrier[6], Olivier Sitbon[3], Gérald Simonneau[3], Anton Vonk Noordegraaf[3], Marc Humbert[5], Frédéric Perros[3], Peter Dorfmüller[5]


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Francisco Perez-Vizcaino*[1], Daniel Morales-Cano[2], Bianca Barreira[2], Laura Moreno[2], Joan A Barbera[2], Angel Cogolludo[1]*

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Frederic Perros*, Benoît Ranchoux, Amélie Bigorgne, Aurélie Hautefort, Barbara Girerd, Olivier Sitbon, David Montani, Marc Humbert, Colas Tcherakian


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INSERM UMR_S 999 / Université Paris-Sud / Université Paris-Saclay – Le Kremlin-Bicêtre – France

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1 KU Leuven and University Hospitals Leuven – Leuven – Belgium, 2 KU Leuven – Leuven – Belgium, 3 INSERM and University Paris-Sud – Le Plessis Robinson – France

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Marianne Rou*, Morad Nakhleh, Florence Lecerf, Marc Humbert, David Montani, Frédéric Perros


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University of Tsukuba – Tsukuba – Japan
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Children’s Hospital Los Angeles – Los Angeles – United States of America

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Henrik Ten Freyhaus*, Mahreen Batool, Eva Berghausen, Marius Vantler, Stephan Rosenkranz
Klinik für Innere Medizin, Heart Center of the University of Cologne – Cologne – Germany

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Birger Tielemans*, Allard Wagenaar†, Mathias Leys†, Catharina Belge†, Marion Delcroix†, Rozenn Quarcck†
1/KU Leuven – Leuven – Belgium, 2/UZ leuven – Leuven – Belgium

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1/KU Leuven – Leuven – Belgium, 2/UZ leuven – Leuven – Belgium

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Ly Tu*, Ayumi Sekine†, Christine Mallet†, Jennifer Bordenave†, Agnès Castan†, Raphael Thuillet†, Carole Phan†, Paul-Benoit Poble†, Jean-Jacques Feige†, Alice Huertas*, Rik Gijsbers†, Christian Möllmann†, Christoph Zehendner†

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A48 SEX HORMONE PROFILES PREDICT THE RISK AND SEVERITY OF DISEASE IN POST-MENOPAUSAL WOMEN WITH PULMONARY ARTERIAL HYPERTENSION
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Eleni Vigkou*, Iraklis Tsangaris, Argyrios Tsantes, Dimitrios Konstantonis, Athanasios Pappas, Frantzeska Frantzeskaki, Michalis Rizos, Stylianos Orfanos, Apostolos Armaganidis
Attikon University Hospital – Athens – Greece

A50 RECEPTOR TYROSINE KINASE SIGNALING DRIVING “PSEUDO-MALIGNANT” LUNG VASCULAR REMODELING - THERAPEUTIC EXPLOITATION
Naga Dinesh Reddy Yerabolu*, Justus Liebig university Giessen – Giessen – Germany
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<td>1Department of Cardiovascular Medicine, Gachon Cardiovascular Research Institute – Incheon – Korea, Republic of, 2Department of Cardiovascular Medicine, Gachon University Gil Medical Center – Incheon – Korea, Republic of, 3Department of Cardiology, Sejong General Hospital – Bucheon – Korea, Republic of, 4Division of Cardiology, Department of Internal Medicine, Seoul St. Mary’s Hospital, The Catholic University of Korea – Seoul – Korea, Republic of</td>
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<td>1Centre for Pulmonary Hypertension, Thoraxclinic at the University Hospital Heidelberg – Heidelberg – Germany, 2European Molecular Biology Laboratory – Heidelberg – Germany, 3Institute of Human Genetics, Heidelberg University – Heidelberg – Germany, 4Hannover Medical School, Clinic for Pneumology – Hannover – Germany, 5Clinic of Pulmonology, University Hospital Zurich – Zürich – Switzerland</td>
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<td>1Centre for Pulmonary Hypertension, Thoraxclinic at the University Hospital Heidelberg – Heidelberg – Germany, 2Medical Clinic VII, Sports Medicine, University of Heidelberg and Translational Lung Research Centre Heidelberg (TLRC), German Centre for Lung Research (DZL) – Heidelberg – Germany, 3Institute of Human Genetics, Heidelberg University – Heidelberg – Germany</td>
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<td>1Centre for Pulmonary Hypertension, Thoraxclinic at the University Hospital Heidelberg – Heidelberg – Germany, 2European Molecular Biology Laboratory – Heidelberg – Germany, 3Institute of Human Genetics, Heidelberg University – Heidelberg – Germany</td>
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A57  LANDSCAPE OF MUTATIONS FOUND BY GENE PANEL ROUTINE SEQUENCING FOR PULMONARY HYPERTENSION

Mélanie Eyries*[1], Anne Leroy*[1], Barbara Girerd*[2], David Montani*[2], Marilyne Levy*[1], Damien Bonnet*[1], Arnaud Bourdin*[1], Romain Trezor*[1], Ari Chauouat*[1], Vincent Cottin*[1], Céline Sanfilzeno*[1], Grégory Prevot*[1], Martine Reynaud-Gaubert*[1], Claire Dromer*[1], Ali Houjejih*[1,2], Marc Humbert*[1], Florent Soubrier*[1]


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Stefan Grätz*[1], Matthias Haimel*[1], Marta Bleda*[1], Charaka Hadinnapola*[1], Wei Li*[1], Joshua Hodgson*[1], Bin Liu*[2], Richard M Salmon*[1], Mark Southwood*[1], Laura Southgate*[1], Rajiv D Machado*[1], Jennifer M Martin*[1], Carmen M Treacy*[1], Katherine Yates*[1], Louise C Daugherty*[1], Olga Shamardina*[1], Deborah Whitehorn*[1], Simon Holder*[1], Micheala A. Aldred*[1], Harm J Bogaard*[1], Colin Church*[1], Gerry Coghlan*[1], Robin Condiffe*[1], Paul A Corris*[1], Cesare Danesino*[1], Mélanie Eyries*[1], Henning Galf*[1], Stefano Ghio*[1], Hossein-Ardeschir Ghofrani*[1], J Simon R Gibbs*[1], Barbara Girerd*[1], Arjan C Houxeling*[1], Luke Howard*[1], Marc Humbert*[1], David G Kiely*[1], Gabor Kovacs*[1], Robert V Mackenzie Ross*[1], Shahin Moledina*[1], David Montani*[1], Michael Newham*[1], Andrea Olschewski*[1], Horst Olschewski*[1], Andrew J Peacock*[1], Joanna Pepke-Zabal*[1], Inga Prokopenko*[1], Christopher J Rhodes*[1], Laura Scelsi*[1], Werner Seeger*[1], Florent Soubrier*[1], Jay Suntharalingan*[1], Emilia Swietlik*[1], Mark R Toshner*[1], Anton Vonk Noordegraaf*[1], Quintin Waas*[1], John Wharton*[1], Stephen J Wort*[1], Nicole Soranzo*[1], Willem H Ouwehand*[1], Allan Lawrie*[1], Paul D Upton*[1], Richard C Trembath*[1], Martin R Wilkins*[1], Nicholas W Morrell*[1]

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Nobumitsu Kobayashi*, Fumiya Kinota, Yunden Droma, Toshimichi Horiiuchi, Atuhito Ushiki, Masanori Yasuo, Hiroshi Yamamoto, Masao Ota, Masayuki Hanaoka
Shinshu University School of Medicine – Matsumoto – Japan

A60  KCNK3 CHANNEL INACTIVATION LEADS TO PULMONARY VASCULAR ALTERATIONS IN RAT
Mélanie Lambert*, Aurélie Hautefort†, Boris Manoury‡, David Montani§, Marc Humbert¶, Frédéric Perros#, Fabrice Antigny$†
†U999 – Le plessis Robinson – France, ‡U1180 – Chatenay Malabry – France

ENHANCED EXPRESSION OF ENDOThELIN-2, AN ISOPePTIDE OF ENDOThELIN-1, BY HYPOXIA IN Lungs: POSSIBLE ROLE IN PULMONARY HYPERTENSION
Yoko Suzuki*, Ikeda Koji†, Miyagawa Kazuya‡, Tamada Naoki§, Nakayama Kazuhiko¶, Yanagisawa Masashii, Emoto Noriaki$†
†Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine – Kobe – Japan; ‡Clinical Pharmacy, Kobe Pharmaceutical University – Kobe – Japan; §International Institute for Integrative Sleep Medicine, University of Tsukuba – Tsukuba – Japan

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Division of Cardiology, Department of Medicine, Taipei Veterans General Hospital – Taipei City – Taiwan

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Excellence Cluster Cardio-Pulmonary System, University of Giessen – Giessen – Germany

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Samsung Medical Center, Sungkyunkwan University School of Medicine ~ Seoul ~ Korea, Republic of

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Mônica Corso Pereira*, Plínio José Whitaker Wolfl

1)Faculty of Medical Sciences of the State University of Campinas (Unicamp) ~ Campinas ~ Brazil, 2)Student of the Faculty of Medicine of Pontifical Catholic University of Campinas (Pucamp) ~ Campinas ~ Brazil

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Chih-Hsin Hsu1,2, Wei-Ting Chang1, Hsiang-Yuan Chang3, Wei-Shin Liu4, Wei-Da Lu5
1)Division of Cardiology, Department of Internal Medicine, Chi-Mei Medical Center, Yungkang Dist – Tainan – Taiwan, 2)Department of Internal Medicine,National Cheng Kung University – Tainan – Taiwan, 3)National Cheng Kung University Hospital Dou-Liou Branch – Dou-Liou – Taiwan, 4)Tzu-Chi General Hospital – Huaiien – Taiwan

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1)Marmara University Medical Faculty Cardiology Department – ISTANBUL – Turkey, 2)Marmara University Medical Faculty Pneumology Department – ISTANBUL – Turkey

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4)Department of Rheumatology, Endocrinology and Nephrology, Graduate School of Medicine and Faculty of Medicine, Hokkaido University – Sapporo – Japan, 5)First Department of Medicine, Hokkaido University Hospital – Sapporo – Japan

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Nataliya Klyaus*, Maria Simakova, Kirill Malikov, Alexey Maslyanskiy, Olga Moiseeva
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A120 ACCURACY AND PRECISION OF MEAN PULMONARY PRESSURE ASSESSED BY ECHOCARDIOGRAPHY AMONG PATIENTS WITH PULMONARY HYPERTENSION

Adrian Lescano*, Juan Farina, Hector Gomez Santa Maria, Augusto Lavalle Cobo, Guadalupe Romero, Nicolas Gonzalez, Miguel Gonzalez, Victor Daru, Hugo Granelli
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A121 RAISING PAH AWARENESS IN SERBIA

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A122 RIGHT HEART CATHETERIZATION FOR THE ASSESSMENT OF PULMONARY HYPERTENSION IN PATIENTS WITH INTERSTITIAL LUNG DISEASE

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A123 EVALUATION OF CARDIAC FUNCTIONAL ALTERNATIONS AND NATRIURETIC PEPTIDE LEVELS IN PATIENTS WITH SYSTEMIC SARCOIDOSIS

Bulent Mutlu1,2, Deniz Kaptan Ozen1, Alper Kepez1, Derya Kocakaya2, Berrin Ceyhan2, Okan Erdogan3, Batur Gonenc Kanar3, Halil Atasi3
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A124 THE CONTRIBUTION OF ENDOTHELIAL CELLS TO THE VOLATOLOMIC SIGNATURE OF PAH

Morad Nakhleh[1], Salam Khatib[2], Ly Tu[1], Maria Vinhas[1], Barbara Gireud[1], Frederic Ferrez[1], David Montani[1], Raneen Jeries[2], Peter Dorfmuller[2], Elie Fadel[1], Christophe Guignabert[1], Marc Humbert[1], Hossam Haick[2], Sylvia Cohen-Kaminsky[1]


A125 CONGENITAL HEART DISEASES: A RARE REASON FOR PULMONARY HYPERTENSION IN ADULT PATIENTS

Gulfer Okumus*[1], Celik Sumer[1], Zuleyha Bingol[1], Gokcen Orhan[2], Murat Inanc[3], Ahmet Kaya Bilge[4]

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A126 TUMOR MARKERS ARE ALTERED IN PLASMA FROM PULMONARY ARTERIAL HYPERTENSION PATIENTS

Göran Rådegran*[1], Habib Bouzina[2]


A127 PULMONARY HYPERTENSION (PH) DUE TO LEFT HEART DISEASE: A PREDICTIVE MODEL USING THE NATIONAL ECHO DATABASE OF AUSTRALIA (NEDA)

Geoff Strange*[1], David Playford[1], Jim Codde[1], David Celemajer[2], Gregory Scalia[1], Kevin Chung[1]


A128 CT FUNCTIONAL PARAMETERS FOCUSING ON RVOT FOR PH

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B10 EFFICACY OF ORAL IRON SUBSTITUTION IN NONANEMIC-IRON DEFICIENT PAH PATIENTS
Bahri Akdeniz*, Ebru Özpelit, Dilek Sezgin, Bihter Sentürk, Can Sevinsidez, Resit Yigit Yilancioglu, Nezih Baris
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B11 HOW EFFICACIOUS IS THE GUIDELINE BASED RISK STRATIFICATION IN WHOLE PAH POPULATION IN ROUTINE PRACTICE?
Bahri Akdeniz*, Ebru Özpelit, Dilek Sezgin, Can Sevinsidez, Nezih Baris, Bihter Sentürk
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B12 RELATIONSHIP BETWEEN BALANCE AND EXERCISE CAPACITY IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Bahri Akdeniz*, Buse Ozcan Kahraman, Sema Savci, Ismail Ozsoy, Serap Acar, Ebru Ozpelit, Can Sevinsidez
Dokuz Eylul University ~ İzmir ~ Turkey

B13 ROLE OF CARDIAC MAGNETIC RESONANCE IN STRATIFYING THE PROGNOSIS OF PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Alessandra Albini*, Fabio Dardi, Massimiliano Palazzini, Enrico Gotti, Andrea Rinaldi, Enrico Monti, Elisa Zuffa, Filippo Pasca, Nikita Tanese, Mariangela Rotunno, Antonio Colangelo, Alessandra Manes, Nazzarena Galie
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B14 TRANSITION FROM SUBCUTANEOUS TREPROMIL TO INTRAVENOUS THERMOSTABLE EPOPROSTENOL IN PATIENTS WITH SEVERE PULMONARY ARTERIAL HYPERTENSION
Anastasia Anthi*, Konstantina Ntaï, Dimitrios Konstantonos, Frantzeska Frantzeskaki, Eleni Stagaki, Cornelia Mitrakou, Athanasios Papai, Michalis Rizos, Olymnia Apostolopoulou, Apostolos Armaganidis, Stylianos Orfanos
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B15 INITIAL TREATMENT STRATEGY AND LONG-TERM SURVIVAL IN PULMONARY ARTERIAL HYPERTENSION (PAH)
Athénaïs Boucly*, Jason Weatherald, Laurent Savale, David Montani, Xavier Jalufka, Mitja Jevnikar, Gérald Simonneau, Marc Humbert, Olivier Sibilon
(1)Université Paris-Sud, APHP, Hôpital Bicêtre ~ Le Kremlin-Bicêtre ~ France, (2)Department of Medicine, Division of Respiratory, University of Calgary ~ Calgary, AB ~ Canada

B16 LONG-TERM OUTCOMES AND PREDICTORS OF SURVIVAL IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION WITHOUT ACCESS TO PARENTERAL PROSTANOIDS THERAPY
Elena Dimitrova*, Arman Postadzhiyan, Bozhidar Finkov, Blagorodna Karatancheva, Emilia Naseva, Vasil Velchev
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B17 IMPROVEMENT OF PULMONARY DIFFUSION CAPACITY AFTER INTRAVENOUS IRON SUBSTITUTION IN PATIENTS WITH IRON DEFICIENCY AND PULMONARY HYPERTENSION
Daniel Dumitrescu*, Tilmann Kramer, Henrik Hagmanns, Felix Gerhardt, Thomas Viethen, Stephan Baldus, Stephan Rosenkranz
Herzzentrum der Universitaet zu Koeln ~ Cologne ~ Germany

B18 CORRELATES OF WHO FUNCTIONAL CLASS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH CONGENITAL HEART DISEASE. RESULTS FROM CHALLENGE REGISTRY.
Christos Feloukidis*, George Giannakoulas, Konstantinos Vasiliadis, Alexandra Frogoudaki, Christos Ntellos, Afruditi Tzifi, Styliani Brill, Athanasios Manginas, Despina Ntaloudi, Marcos Kolios, Antonios Pitsis, Haralampos Karvounis, Konstantinos Tsiofis, Spyridon Ramous
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B19  EXERCISE CMR TO EVALUATE RV FUNCTION AND HEMODYNAMICS IN PAH: PILOT STUDY
Veronica Franco*, Eks Wye Pollock, Subha Raman
The Ohio State University – Columbus, Ohio – United States of America

B20  INVESTIGATION OF HEPATIC FIBROSIS AS A NOVEL PROGNOSTIC FACTOR IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Asuka Furukawa*, Yuichi Tamura
International University of Health and Welfare Mita Hospital – Tokyo – Japan

B21  AUDIT OF DISEASE TARGETED THERAPIES IN ADULT PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION

B22  SAFETY OF SWITCHING TO RIOCIGUAT FOR THE TREATMENT OF PULMONARY HYPERTENSION: DATA FROM THE EXPERT REGISTRY
Ekkehard Grünig[1], Henning Gall[2], Hossein-Ardeschir Ghofrani[2], Marc Humbert[3], Gérald Simonneau[3], Michael Halank[4], David Langleben[5], Repke Snijder[6], Pilar Escribano[7], Lisa Melnicuk[8], Tobias Lange[9], Jean-Luc Vachiéry[9], Hubert Wirtz[10], Douglas Helmsen[11], Iraklis Tsangaris[12], Joan Albert Barberà[13], Joana Pepke-Zaba[13], Christian Meier[14], David Pittrow[15], Marius M Hoeper[16]
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B23 RISK STRATIFICATIONS AND DEATHS IN ADULT UNCORRECTED ATRIAL SEPTAL DEFECT WITH PULMONARY HYPERTENSION: AN INDONESIAN EXPERIENCE
Anggoro Budi Hartopo*, Dyah Wulan Anggraini, Lucia Kris Dinarti
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B24 INITIAL COMBINATION THERAPY WITH RIOCIQUAT AND AMBRISENTAN IN PULMONARY ARTERIAL HYPERTENSION: A PROSPECTIVE OPEN-LABEL STUDY
Naushad Hirani*, Jason Weatherald, Doug Helmersen, Mitesh Thakrar, Rhea Varughese, Carmen Lydell, Nowell Fine
University of Calgary – Calgary – Canada

B25 IMPACT OF AGE AND COMORBIDITY ON OUTCOME IN IDIOPATHIC PULMONARY HYPERTENSION: DATA FROM THE SWEDISH PULMONARY ARTERIAL HYPERTENSION REGISTRY
Clara Hjalmarsson*, Göran Rådegran, David Kyllhammar, Bengt Rundqvist, Jonas Mulling, Magnus Nisell, Barbro Kjellström
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B26 EFFICACY AND SAFETY OF EARLY SEQUENTIAL COMBINATION THERAPY WITH RIOCIQUAT AND ENDOTHELIN RECEPTOR ANTAGONISTS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION: RESULTS FROM PATENT-1 AND PATENT-2
Marc Humbert, Ekkehard Grünig, Pavel Jansal, Gérald Simonneau, Franck Rahaghi, Stephan Rosenkrantz, Dennis Busse, Christian Meier, Janethe De Oliveira Pena, Hossein-Ardeschir Ghofrani
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B27 HIGH-DENSITY LIPOPROTEIN CHOLESTEROL AND INFLAMMATORY MARKERS IN PREDICTION OF LONG-TERM RESPONSIVENESS TO CALCIUM CHANNEL BLOCKERS IN PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION
Kamil Jonas*, Marcin Waligora, Wojciech Magon, Jakub Stepniewski, Piotr Podolec, Grzegorz Kopeć
Department of Cardiac and Vascular Diseases Jagiellonian University Medical College – Krakow – Poland

B28 OUTCOME OF COMPRESSION OF LEFT CORONARY ARTERY IN PATIENTS WITH SEVERE PULMONARY ARTERIAL HYPERTENSION ASSOCIATED WITH CONGENITAL HEART DISEASES
Jo Won Jung*, Sang Eun Lee, Hyuk-Jae Chang, Se Yong Jung, Jae Young Choi, Yu Lim Shin, Han Ki Park, Young Hwan Park
Yonsei University College of Medicine – Seoul – Korea, Republic of

B29 EARLY EXPERIENCE OF MACITENTAN FOR THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION WITH CONGENITAL HEART DISEASES IN SINGLE CENTER.
Jo Won Jung*, Hyuk Jae Chang, Se Yong Jung, Jae Young Choi
Yonsei University College of Medicine – Seoul – Korea, Republic of

B30 CLINICAL COURSE OF INITIAL ORAL COMBINATION THERAPY FOR THE TREATMENT OF PAH IN SYSTEMIC SCLEROSIS
Yasushi Kawaguchi*, Yuki Ichimura, Tomoaki Higuchi, Kae Takagi
Institute of Rheumatology, Tokyo Women’s Medical University – Tokyo – Japan

B31 RAPID SEQUENTIAL COMBINATION THERAPY WITH PDE5 INHIBITORS AND ENDOTHELIN RECEPTOR ANTAGONISTS SUBSTANTIALLY IMPROVES HEMODYNAMICS AT EARLY FOLLOW-UP
Tilmann Kramer*, Daniel Dumitrescu, Felix Gerhardt, Philipp Nattmann, Christopher Hohmann, Stephan Baldus, Stephan Rosenkrantz
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B32 HEMODYNAMIC AND HISTOPATHOLOGIC BENEFITS OF EARLY TREATMENT WITH MACITENTAN IN A RAT MODEL OF PULMONARY ARTERIAL HYPERTENSION
Kim Kyung-Hee[1], Kim Hyung-Kwan[1]

B33 THE PROGNOSTIC VALUE OF DLCO AND PULMONARY BLOOD FLOW IN PATIENTS WITH PULMONARY HYPERTENSION
Tobias Lange*, Nicoletta Mergenthaler
University Medical Center Regensburg – Regensburg – Germany

B34 PULMONARY HYPERTENSION IN KOREAN PATIENTS WITH CONNECTIVE TISSUE DISEASE: RESULTS FROM EXTENDED FOLLOW-UP OF A NATION-WIDE REGISTRY
Shin-Seok Lee[1], Chan Hong Jeon[1], Han Ki Park[1]

B35 FUNCTIONAL CAPACITY USING SUBMAXIMAL EXERCISE TEST IS RELIABLE PREDICTOR FOR AGGRAVATION OF PULMONARY HYPERTENSION
Byeong-Ju Lee*, Jung Hyun Choi
Pusan national university hospital – Busan – Korea, Republic of

B36 CLINICAL EFFICACY OF MACITENTAN IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION: OUR EXPERIENCE IN ARGENTINA
Adrian Lescano[1], Nicolás Atamañuk[1], Vanesa Gregorietti[2], Nicolás Caruso[1], Daniela García Brasca[3], María Lorena Coronel[1], Juan Farina[1], Sergio Bortman[1]

B37 MEDICATION ADHERENCE AND RISK OF HOSPITALIZATION IN PULMONARY ARTERIAL HYPERTENSION (PAH) PATIENTS TREATED WITH ENDOTHELIN RECEPTOR ANTAGONISTS (ERAS) OR PHOSPHODIESTERASE TYPE 5 INHIBITORS (PDEIS)
Cassandra Lickert[1], Jerrold Hill[2], Michele Cole[1], Rolin Wade[1], Yuen Tsang[1], William Drake[1]

B38 SURVIVAL OF PATIENTS WITH PULMONARY HYPERTENSION -A SINGLE CENTER EXPERIENCE IN JAPAN-
Hiromi Matsubara*, Aiko Ogawa
National Hospital Organization Okayama Medical Center – Okayama – Japan

B39 MORTALITY IN PULMONARY ARTERIAL HYPERTENSION TRIALS: A COMPARISON BETWEEN META-ANALYSES
Enrico Monti*, Massimiliano Palazzini, Enrico Gotti, Fabio Dardi, Andrea Rinaldi, Alessandra Albini, Elisa Zuffa, Daniele Guarino, Filippo Pasca, Nikita Tanese, Antonio Colangelo, Mariangela Rotunno, Alessandra Manes, Nazzareno Galie
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B40 PROGNOSTIC VALUE OF 12-LEAD ECG IN PATIENTS WITH PRECAPILLARY PULMONARY HYPERTENSION
Thomas Nguyen*, Jean-Luc Vachiéry, Rubén Casado-Arroyo
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B41 ALLERGIC TO ONE DOES NOT MEAN TO ALL
Zeki Ongen*, Burçak Kılıkıran Avci, Hurrem Gul Ongen
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B42 CARDIOPULMONARY EXERCISE TEST IN PULMONARY ARTERIAL HYPERTENSION PATIENTS: LONGITUDINAL CHANGES IN THE MODERN MANAGEMENT ERA
Evangelia Panagiotidou[1], Georgia Pitsiou[1], Evdokia Sourla[1], Sofia Akritidou[1], Vasileios Bagalas[2], Afroditi Boutou[2], Ioannis Stanopolou[1]

B43 TREATMENT PATTERNS AND MEDICATION ADHERENCE AND PERSISTENCE AMONG PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION IN REAL-WORLD DATABASE REPRESENTING A LARGE US HEALTH PLAN
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B44 HEMODYNAMIC AND EXERCISE EFFECTS OF DIFFERENT TYPES OF INITIAL ORAL COMBINATION THERAPY IN PULMONARY ARTERIAL HYPERTENSION
Andrea Rinaldi*, Massimiliano Palazzini, Enrico Gotti, Fabio Dardi, Alessandra Albini, Enrico Monti, Elisa Zuffa, Daniele Guarino, Filippo Pasca, Nikita Tanese, Mariangela Rotunno, Antonio Colangelo, Alessandra Manes, Nazzareno Galli
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B45 INITIAL CLINICAL RESULTS WITH MACITENTAN IN CONGENITAL HEART DISEASE PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Joaquín Rueda-Soriano*[1], Josep Lluís Melero-Ferrer[2], Carlos Israel Chamorro-Fernández[2], Francisco Buendia-Fuentes[4], Ana Osa-Sáez[2], Luis Martínez-Dolze[2]

B46 SAFETY AND EFFICACY OF SUBCUTANEOUS TREPROSTINIL IN CONGENITAL HEART DISEASE-RELATED PULMONARY ARTERIAL HYPERTENSION
Nika Skoro-Sajer*[1], Christian Gerges[3], Olga Hajnalka Balint[2], Monika Kaldararova[2], Iveta Simkova[3], Johannes Jakowitsch[2], Harald Gabriel[1], Helmut Baumgartner[1], Marco Gerges[1], Roela Sadushi-Kolici[1], David Celemajer[1], Irene Lang[1]

B47 PARENTERAL USE OF PROSTANOIDS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION (PAH) IN A TERTIARY REFERRAL UNIVERSITY HOSPITAL
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B48 THE GOAL OF LONG-TERM OXYGEN THERAPY TO AVOID TISSUE HYPOXIA IN PATIENTS WITH PULMONARY HYPERTENSION
Rika Suda*, Nobuhiro Tanabe, Akira Naito, Rintaro Nishimura, Takayuki Jujo, Toshihiko Sugiuira, Seiichiro Sakao, Koichiro Tsutami
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B49 DIVERSITY OF BORDERLINE PULMONARY ARTERIAL PRESSURE ASSOCIATED WITH SYSTEMIC SCLEROSIS: 4 CASE SERIES
Eri Sugawara*[1], Masaru Kato[2], Ryo Hisada[2], Hiroyuki Nakamura[1], Fujieda Yuichiro[2], Kenji Oku[2], Toshiyuki Bohgaki[2], Shinshuke Yasuda[2], Hiroshi Ohira[2], Ichizo Tsujino[2], Masaharu Nishimura[2], Tatsuya Atsumi[2]
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B50 REAL LIFE EXPERIENCE WITH REVEAL RISK SCORE FOR PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Celik Sumer*[1], Ahmet Kaya Bilge[2], Murat Inanc[2], Halim Isseyer[2], Gulfer Okumus[1]
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B51 INFLUENCE OF INITIAL RIOCIGUAT MONOTHERAPY AND TRANSITION FROM SILDENAFIL TO RIOCIGUAT THERAPY IN PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION ON RIGHT HEART REMODELING AND RIGHT VENTRICULAR – PULMONARY ARTERIAL COUPLING
Irina Taran*[1], Anna Belevskaya[4], Marina Saidova[3], Tamila Martynyuk[3], Irina Chazova[3]
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B52 THE VALUE OF CARDIOPULMONARY EXERCISE TESTING IN ASSESSMENT OF THE SEVERITY OF PULMONARY ARTERIAL HYPERTENSION PATIENTS
Irina Taran[1][2], Zarina Valiev[3], Tamila Martynyuk[4], Irina Chazov[4][5]

B53 ENHANCED GLUCOSE METABOLISM IN THE RIGHT VENTRICAL WALL PREDICTS A PROGNOSTIC IMPACT IN PATIENTS WITH PULMONARY HYPERTENSION
Nakamura Tomohisa*, Tahara Nobuhiro, Sugiyama Yoichi, Bekki Munehisa, Tahara Atsuko, Honda Akihiro, Kumagai Eita, Igata Sachio, Fukumoto Yoshihiro
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B54 HEMODYNAMIC EFFECTS OF THE ORAL PROSTACYCLIN (IP) RECEPTOR AGONIST RALINEPAG IN PULMONARY ARTERIAL HYPERTENSION (PAH)
Fernando Torres[1][2][3], Harrison Farber[1][4], Arsen D Ristic[1][5], Vallerie McLaughlin[1][6], John Adams[1][7], Stewart Turner[1][8], Preston Klassen[1][9], Pilar Escribano-Subias[1][10], Namita Sood[1][11], Anne M Keogh[1][12], Lewis Rubin[1][13][14][15]
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B55 IS REDUCED SYSTEMIC ARTERIAL STIFFNESS A NOVEL SURROGATE INDEX OF SEVERITY IN PATIENTS WITH GROUP 1 PULMONARY ARTERIAL HYPERTENSION?
Helen Triantafylolith[1][2][3], Olympia Apostolopoulou[1], Benas Dimitris[1][4], Leonidas Palaiodimos[1], Mary Varoudi[1], George Pavlidis[1], Anastasia Anthi[1][2], Loukianos Ralli[1][3], Orfanos Stylianos[1][2], Hraklis Tsagkaris[1], Ignatios Ikonomidis[1][2][5], Apostolos Armaganidis[1][2], John Lekaki[1][2][3]
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B56 THE ROLE OF SYSTEMIC ENDOTHELIAL GLYCOCALYX IN PATIENTS WITH GROUP 1 PULMONARY ARTERIAL HYPERTENSION
Helen Triantafylolith[1][2][3], Olympia Apostolopoulou[1], Benas Dimitris[1][4], Leonidas Palaiodimos[1], Mary Varoudi[1], George Pavlidis[1], Dimitris Kostantonis[1][2][5], Ignatios Ikonomidis[1][2][5], Stylianos Orfanos[1][2], Iraklis Tsagkaris[1], Anastasia Anthi[1][2][3], Apostolos Armaganidis[1][2][3], John Lekaki[1][2][3]

B57 RIGHT ATRIUM ENLARGEMENT PREDICTS CLINICALLY SIGNIFICANT SUPRAVENTRICULAR ARRHYTHMIAS IN PULMONARY ARTERIAL HYPERTENSION.
Marcin Waligóra*, Anna Tyrka, Jakub Stepieniewski, Wojciech Magon, Piotr Podolec, Grzegorz Kopeć
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B58 ELECTROCARDIOGRAPHIC CRITERIA OF RIGHT VENTRICULAR HYPERTROPHY REFLECT HEMODYNAMIC IMPROVEMENT IN PULMONARY HYPERTENSION.
Marcin Waligóra*, Anna Tyrka, Jakub Stepieniewski, Piotr Podolec, Grzegorz Kopeć
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B59 STRUCTURAL AND FUNCTIONAL STATUS OF THE SYSTEMIC CIRCULATION ARTERIES IN PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION WITH DIFFERENT FUNCTIONAL ABILITIES AND ENDPOINTS
Iryna Zhyvyl*, Yevhen Titov, Ganna Radchenko, Yuri Sirenko
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B60  PROGNOSTIC VALUE OF ELECTROCARDIOGRAM IN PATIENTS WITH IDIOPATHIC/HEREDITARY PULMONARY ARTERIAL HYPERTENSION
Elisa Zuffa*, Fabio Dardi, Nikita Tanese, Massimiliano Palazzini, Enrico Gotti, Andrea Rinaldi, Enrico Monti, Alessandra Albini, Daniele Guarino, Filippo Pasca, Mariangela Rotunno, Antonio Colangelo, Alessandra Manes, Nazzareno Galli
University of Bologna, Department of Specialized Diagnostic and Experimental Medicine - DIMES - Bologna/IT – Bologna – Italy

B61  RIGHT VENTRICULAR ASSISTANCE AND LUNG TRANSPLANTATION

PERCUTANEOUS ATRIAL SEPTOSTOMY WITH PERIPHERAL STENT IN A PATIENT WITH SYNCOPE AND REFRACORY PULMONARY ARTERIAL HYPERTENSION AND MILD HYPOXIA
Vasil Velchev*
St. Anna Hospital – Sofia – Bulgaria

B62  TRIALS DESIGN AND NEW THERAPIES FOR PULMONARY ARTERIAL HYPERTENSION

POTENCY, SELECTIVITY, AND COMPARATIVE PLATELET AND VASCULAR ACTIVITY OF RALINEPAG ACTING ON IP RECEPTORS IN HUMAN TISSUES
John Adams*[1], Brendan Whittle[1], Lei Shen[2], Jigisha Patel[2], Lucie H Clapp[2]

SILDENAFIL ADDED TO PIRFENIDONE IN PATIENTS WITH ADVANCED IDIOPATHIC PULMONARY FIBROSIS (IPF) AND PULMONARY HYPERTENSION (PH): A PHASE IIb, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY
Jürgen Behr*[1], Steven D Nathan[2], Sergio Harari[3], Wim Wuyts[4], Klaus-Uwe Kirchgaessler[5], Monica Bengus[5], Frank Gilberg[5], Athol U Wells[6]

B63  SILDENAFIL ADDED TO PIRFENIDONE IN PATIENTS WITH ADVANCED IDIOPATHIC PULMONARY FIBROSIS (IPF) AND PULMONARY HYPERTENSION (PH): A PHASE IIb, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY
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B64 INDIVIDUALIZED HOME-BASED EXERCISE PROGRAM FOR THE IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION PATIENTS: MULTIPLE CASE STUDY
Lina Butane*, Daina Šmite, Andris Skride
Latvia – Riga – Latvia

B65 UDENAFIL FOR THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION
Hyuk Jae Chang*, Shin-Jeong Song†, Sung-A Chang‡, Hyung Kwan Kim§, Duk-Kyung Kim∥
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B66 ACUTE HEMODYNAMIC CHANGES AFTER SINGLE ADMINISTRATION OF UDENAFIL IN PULMONARY ARTERIAL HYPERTENSION (PHASE IIA STUDY)
Sung-A Chang*, Hyung-Kwan Kim†, Hyuk Jae Chang‡, Duk-Kyung Kim∥
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B67 BASELINE AND DEMOGRAPHIC DATA ON THE FIRST 150 PATIENTS FROM SPHERE [SELEXIPAG: THE USERS DRUG REGISTRY]
Kelly Chin*, Kristin Highland†, Nick H Kim‡, Murali Chakinala§, Anna Hemnes∥, Harrison Farber¶, Carol Zhao∥∥, Mike Keating‡‡, Brian Hartline¶¶, Johanna Colvin||, Valliere Mclaughlin††
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B68 ERS TASK FORCE: EXERCISE TRAINING AND REHABILITATION IN PATIENTS WITH SEVERE CHRONIC PULMONARY HYPERTENSION
Ekkehard Grüning*, Christina Eichstaedt†, Joan-Albert Barberá‡, Isabel Blanco§, Eduard Bossone‖, Antonio Cittadini‖‖, Marion Delcroix‖‖‖, Sean Gaine‖‖‖‖, Stefano Ghioongo‖‖‖‖, Lina Gumbiņa†, Frances Handoko De Mars‖, Martin Johnson‖, David Kiel!, Gabor Kovacic‖‖‖, Alison Mackenzie‖‖‖‖, Robert Naeije‖‖‖‖‖, Silvia Ulrich‖‖‖‖‖, Horst Olschewski‖‖‖‖‖, Abillo Reis‖‖‖‖‖, Mário Santos‖‖‖‖‖, Anton Vonk Noordegraaf‖‖‖‖‖, Andrew Peacock‖‖‖‖‖
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B69 ADVANCED CORRECTIVE TREATMENT USING PULMONARY VASOREACTIVITY TESTING IN PATIENTS WITH EISENMENGER SYNDROME WITH CONGENITAL HEART DISEASES; RETROSPECTIVE STUDY IN SINGLE CENTER
Jo Won Jung*, Se Yong Jung, Jae Young Choi, Yu Lim Shin, Han Ki Park, Young Hwan Park
Yonsei University College of Medicine – Seoul – Korea, Republic of

B70 CONTINUOUS S.C. DIURETIC THERAPY AT HOME IMPROVES QUALITY OF LIFE IN END-STAGE PAH
Miriam Kap*
Erasmus MC – Rotterdam – Netherlands

B71 BENEFICIAL EFFECTS OF FERRIC CARBOXYMALTOSE IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION AND IRON DEFICIENCY: A LONG-TERM PILOT STUDY
Tilmann Kramer*, Kristiana Natsina, Thomas Viethen, Felix Gerhardt, Daniel Dumitrescu, Stephan Baldus, Stephan Rosenkranz
Klinik Ilf für Innere Medizin, Herz­zentrum der Universität zu Köln, Germany – Köln – Germany
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TRIALS DESIGN AND NEW THERAPIES FOR PULMONARY ARTERIAL HYPERTENSION

B72 IDENTIFICATION OF CELASTRAMYCIN AS A NOVEL THERAPEUTIC AGENT FOR PULMONARY ARTERIAL HYPERTENSION
Tohoku University – Sendai – Japan

B73 CHRONIC TRANSFUSION EXCHANGES IN THE MANAGEMENT OF SICKLE CELL DISEASE-ASSOCIATED PRECAPILLARY PULMONARY HYPERTENSION: A PILOT STUDY
Turpin Matthieu*, Parent Florence, Jais Xavier, Montani David, Sitbon Olivier, Humbert Marc, Simonneau Gerald, Savale Laurent
Service de pneumologie - CHU Bicêtre – Le Kremlin Bicêtre – France

B74 SAFETY AND EFFICACY OF IMMUNOADSORPTION AS AN ADD-ON TO MEDICAL TREATMENT IN PATIENTS WITH SEVERE IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION (IPAH)
Christian Nagel[1], Benjamin Egenlauf[1], Ralf Ewert[3], Hans Lehmkuhl[4], Stephan Rosenkranz[2], Nicola Benjamin[1], Vedat Schwenger[1], Felix Herth[2], Ekkehard Grünig[1]
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B75 PRECLINICAL AND PHASE 1 CLINICAL CHARACTERIZATION OF LIQ861, A NEW DRY POWDER FORMULATION OF TREPROSTINIL
Mike Royal[1], Robert Roscigno[2], Toby Vaughn[1], Stephanie Anderson[1], William Wargin[2], Rex Williams[1], Clint Forsythe[1], Thomas Hunt[1], Patrick Normand[3], Manal Hantash[1], John Dillberger[1]

B76 IDENTIFICATION OF EMETINE AS A NOVEL THERAPEUTIC AGENT FOR PULMONARY HYPERTENSION IN RATS -HIGH-THROUGHPUT SCREENING OF 5,562 COMPOUNDS-
Mohammad Abdul Hai Siddique*, Kimio Satoh, Ryo Kurosawa, Md Elias Al-Mamun, Nobuhiro Kikuchi, Taiyu Satoh, Masamichi Nogi, Shinichiro Sunamura, Hiroaki Shimokawa
Department of Cardiovascular Medicine – Sendai – Japan

B77 PYRIDOXAMINE ATTENUATED THE SMOOTH MUSCLE CELL PROLIFERATION AND HEMODYNAMIC AGGRAVATION IN THE PULMONARY ARTERY HYPERTENSION ANIMAL MODEL
Kuk Hui Son[1], Seyeon Oh[2], Seungbum Choi[3], Kyung-Hee Kim[3], Minso Kim[3], Hanul Choi[3], Jeongwon Ryu[3], Kyunghee Byun[3], Wook-Jin Chung[3]

B78 THE MOTION STUDY: A RESPONDER ANALYSIS OF RIOCIGUAT
Namita Sood[1], Alvaro Aranda[2], David Platt[3], Larose Anneliese[4], Frank Kleijn Jung[5], Gerald O’Brien[5]
B79 HEMODYNAMIC PREDICTORS OF ACUTE RIGHT HEART FAILURE AFTER HEART TRANSPLANTATION (HT). EMERGING ROLE OF PULMONARY ARTERY COMPLIANCE (PAC)

Oscar Aguierre-Zurita*, David Galvez, Walter Alarco, Oscar Guerrero, Miguel Lescano, Christian Solopouco, Ruth Villarroel, Ana Sihuayro
INCOR – LIMA – Peru

B80 PDE-5 INHIBITORS FOR PULMONARY HYPERTENSION DUE TO LEFT HEART DISEASE: POTENTIAL BENEFIT?

Hayley Barnes*1, Zoe Brown2, Andrew Burns3, Trevor Williams4
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B81 CLINICAL PHENOTYPES, VENTILATORY RESPONSES TO EXERCISE AND OUTCOMES OF PULMONARY HYPERTENSION DUE TO LEFT HEART DISEASE: ROLE OF THE PRE-CAPILLARY COMPONENT

Sergio Caravita*1, Andrea Faini1, Sandy Carolino D’Arauj1, Céline Dewachter2, Laura Chomette2, Antoine Bonduel1, Robert Naeije2, Gianfranco Parati1, Jean-Luc Vacheyri2
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B82 DYSREGULATION OF WNT-RELATED SIGNALING PATHWAY CORRELATES WITH THE DEVELOPMENT OF PH SECONDARY TO LEFT VENTRICULAR DYSFUNCTION

Zen-Kong Dai*, I-Chen Chen, Jong-Hau Hsu
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B83 A NEW SCORE TO DIFFERENTIATE IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION FROM PULMONARY HYPERTENSION DUE TO HEART FAILURE WITH PRESERVED EJECTION FRACTION

Fabio Dardi*1, Nikita Tanese1, Sergio Caravita2, Andrea Rinaldi2, Celine Dewachter3, Enrico Gott1, Thomas Nguyen3, Enrico Monti1, Alessandra Albin1, Massimiliano Palazzini2, Alessandra Manes1, Jean Luc Vachery1, Nazareno Galié1
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B84 PATHOPHYSIOLOGY OF PULMONARY HYPERTENSION DUE TO LEFT HEART DISEASE – A HEMODYNAMIC STUDY

Christian Gerges*1, Mario Gerges2, Pierre Fesle3, Anna-Maria Pistril3, David Celermaiher1, Irene Lang2,3
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B85 EFFECTS OF CONTINUOUS-FLOW LEFT VENTRICULAR ASSIST DEVICE IMPLANTATION ON PULMONARY HAEMODYNAMICS IN ADVANCED HEART FAILURE PATIENTS

Ada Francesca Giglio1, Luciana D’Angelo1, Enrico Perna1, Enrico Ammirati1, Francesca Macera1, Manlio Gianni Cipirani1, Fabrizio Oliva1, Andrea Garasch1, Claudio Russo2, Maria Frigerio1
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B86 GENETIC ANALYSIS AND CHAMBER SPECIFIC GENE EXPRESSION ANALYSIS IN PATIENTS WITH CPC-PH AND IPC-PH

Hidekata Kikoda, Yoshihiro Asano, Ayako Takuwa, Yohei Miyashita, Hiroshi Miyawaki, Tomohito Ohhtani, Yoshihiko Sawa, Keiko Yamauch-Takahara, Yasushi Sakata
Osaka University Graduate School of Medicine – Suta – Japan

B87 THERAPEUTIC POTENTIAL OF PHOSPHODIESTERASE TYPE 5 INHIBITORS IN HEART FAILURE WITH PRESERVED EJECTION FRACTION AND COMBINED POST- AND PRE-CAPILLARY PULMONARY HYPERTENSION

Tilmann Kramer1, Kristina Orlove2, Felix Gerhardt2, Daniel Dumitruescu3, Henrik Ten Freyhaus1, Martin Hellmich1, Stephan Baldus2, Stephan Rosenkranz2
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B88 PRESENCE OF PULMONARY HYPERTENSION IS A POOR PROGNOSTIC FACTOR IN PATIENTS WITH PRIMARY MITRAL REGURGITATION NOT IN SECONDARY MITRAL REGURGITATION

Ju-Hee Lee1, Jae-Hyeong Park2, Hee-Jin Kwon2, Seok-Woo Seong2, Jin Kyung Ohhi2, Myeong-Chan Cho2,3
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**B89** FLUID CHALLENGE DURING RIGHT HEART CATHETERIZATION: AN EXPERIENCE FROM A TERTIARY PULMONARY HYPERTENSION REFERRAL CENTRE

Nima Moghaddam*, John Swiston¹, Robert D Levy¹, Lisa Lee², Victor F Huckell¹, Nathan W Brunner¹
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**B90** EFFECT OF IMPROVEMENT OF PULMONARY HYPERTENSION AND/OR LEFT VENTRICULAR SYSTOLIC FUNCTION ON THE LONG-TERM PROGNOSIS OF PATIENTS WITH PULMONARY HYPERTENSION WITH LEFT VENTRICULAR SYSTOLIC DYSFUNCTION

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**B91** COMPARATIVE OUTCOME OF INCIDENT PATIENTS WITH PULMONARY HYPERTENSION DUE TO LEFT HEART DISEASE ACCORDING WITH THE HAEMODYNAMIC CLASSIFICATION OF THE 2015 ESC-ERS PULMONARY HYPERTENSION GUIDELINES

Filippo Pasca*, Fabio Dardi, Massimiliano Palazzini, Enrico Gotti, Andrea Rinaldi, Alessandra Albini, Enrico Monti, Elisa Zuffa, Daniele Guarino, Nikita Tanese, Mariangela Rotunno, Antonio Colangelo, Alessandra Manes, Nazzareno Galiè
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**B92** NEDA PH-LHD PREDICTIVE MODEL: VALIDATION OF DIASTOLIC MARKERS OF PULMONARY HYPERTENSION WITH RIGHT HEART CATHETERISATION

Geoff Strange*, David Playford¹, Pyi Naing¹, Jim Codde¹, David Celemajer², Gregory Scalia², Kevin Chung¹
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**B93** RHO-KINASE AND CYCLOPHILIN A AS NOVEL THERAPEUTIC TARGETS FOR CARDIAC DIASTOLIC DYSFUNCTION AND POST-CAPILLARY PULMONARY HYPERTENSION

Department of Cardiovascular Medicine, Tohoku University Graduate School of Medicine – Sendai – Japan

**B94** MEAN VELOCITY OF THE PULMONARY ARTERY AS AN EARLY PROGNOSTIC INDICATOR IN HFREF IN RELATION WITH FIBROSIS BIOMARKERS GALECTIN-3 AND ST2/LI-1.

Blanca Trejo-Velasco*, Oscar Fabregat-Andrés, Maria Pilar García-González, Monica Ferrando, Diana Perdomo-Londoño, Joaquina Belchí, Cristina Albiach-Montañana, Sergio Sánchez-Álvarez, Juan Pablo Cárdenas-Tealido, Salvador Morell-Cabezado, Francisco Ridocci-Soriano
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**B95** A RARE AND RAPIDLY PROGRESSING CASE OF PULMONARY HYPERTENSION

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C10 A POTENTIAL ROLE FOR PDE-5 INHIBITORS FOR PULMONARY HYPERTENSION DUE TO LUNG DISEASE/HYPOXIA
Hayley Barnes*[1], Zoe Brown*[2], Andrew Burns*[3], Trevor Williams*[1]

C11 SEVERE PULMONARY HYPERTENSION IN TOBACCO-INDUCED RESPIRATORY DISEASES
Samy Chelabi*[1], Guillaume Chassagnon*[2], Laurent Savale*[1], Jason Weatherald*[1], Xavier Jasi*[1], Athenaïs Bouchy*[1], Hervé Mal*[1], Pierre-Regis Burgel*[1], Gerald Simonneau*[1], Olivier Sitbon*[1], Marc Humbert*[1]

C12 COMPARATIVE OUTCOME OF INCIDENT PATIENTS WITH PULMONARY HYPERTENSION DUE TO LUNG DISEASE ACCORDING WITH THE HAEMODYNAMIC CLASSIFICATION OF THE 2015 ESC-ERS PULMONARY HYPERTENSION GUIDELINES
Daniele Guarino*, Massimiliano Palazzini, Enrico Gotti, Andrea Rinaldi, Fabio Dardi, Alessandra Albini, Enrico Monti, Elisa Zuffa, Filippo Pasca, Nikita Tanese, Mariangela Rotunno, Antonio Colangelo, Alessandra Manes, Nazzareno Galì
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C13 INHALED ILOPROST AS POTENTIAL NEW TREATMENT FOR GROUP 3 PULMONARY HYPERTENSION
Chih-Hsin Hsu*, Po-Lan Su
Department of Internal Medicine, National Cheng Kung University Hospital – Tainan – Taiwan

C14 PROGNOSTIC FACTORS OF PULMONARY HYPERTENSION WITH SEVERE LUNG DISEASE IN RETROSPECTIVE STUDY
Nakayama Kazuhiko*, Emoto Noriaki, Tamada Naoki, Shinkura Yuto, Onishi Hiroyuki, Yanaka Konichi, Matsuoka Yoichiro, Shinke Yoshiro, Hirata Ken-Ichi
Kobe University Graduate School of Medicine – Kobe – Japan

C15 ESTABLISHMENT OF A NOVEL MODEL OF GROUP 3 PULMONARY HYPERTENSION INDUCED BY SU5416/HYPOXIA IN RATS
Yosuke Wada*, Kitaguchi Yoshiaki, Yasuo Masanori, Hanaoka Masayuki
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C16 A RARE RESPIRATORY CONDITION ASSOCIATED WITH PULMONARY HYPERTENSION
Yalin Tolga Yaylali*, Sinan Durmus, Alpenen Emre Akgun, Fatma Evyapan
Pamukkale University – Denizli – Turkey

CTEPH

C17 BALLOON PULMONARY ANGIOPLASTY(BPA) AS AN ADDITIONAL TREATMENT OPTION FOR PATIENTS WITH INOPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION (CTEPH) TREATED WITH RIOCIUGAT.
Shiro Adachi*[1], Nakano Yoshishita*[1], Tajima Fumitaka*[2], Shimokata Shigetake*[1], Kamimura Yoshihiro*[1], Okumura Naoki*[1], Murohara Toyoko*[1], Kondo Takahisa*[1]

C18 SUBMASSIVE PULMONARY EMBOLISM TREATMENT WITH ULTRASOUND-ACCELERATED THROMBOLYSIS (SPEAR) TRIAL: A PROSPECTIVE STUDY.
Wael Berjaoui*, Michael Knox, Reda Girgis, David Langholz
Spectrum Health – Grand Rapids – United States of America

C19 PREVALENCE AND LONG TERM OUTCOME OF CTEPH - SINGLE CENTRE EXPERIENCE.
Marcela Bohacekova*, Tatiana Valkovicova, Monika Kaldararova, Iveta Simkova
Department of Cardiology and Angiology, Medical Faculty, Slovak Medical University and National Institute of Cardiovascular Diseases, – Bratislava – Slovakia
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**C20** IS SUBDURAL HAEMORRHAGE AFTER PULMONARY ENDARTERECTOMY UNDER-ESTIMATED?
Alicia Xue Fen Chia*[1], Jonathan Yap*[1], Wen Ruari*[1], Kenny Wei-Tsen Loh*[1], Foong Koon Cheah*[1], Ai Leen Ang*[1], Ghee Chee Phua*[1], Dui Wen Sewa*[1], Ju Le Tan*[1], David Jenkins*[1], Victor Tar Toong Chao*[1], Soo Teik Lim*[1]


**C21** ABSENCE OF THE FACTOR V LEIDEN MUTATION AND GENETIC RISK FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Mark Dodson*[1], Kelli Sumner*[1], Jady Sanders*[1], Lynette Brown*[1], Scott Stevens*[1], Scott Woller*[1], Hunter Best*[1], Gregory Elliott*[1]

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**C22** EFFECT OF BALLOON PULMONARY ANGIOPLASTY ON RIGHT VENTRICULAR AFTERLOAD IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Christian Gerges*[1], Mario Gerges*[1], Nika Skoro-Sajer*[1], Roela Sadushi-Kolic*[1], Bernhard Moser*[2], Shahrokh Taghavi*[2], Walter Klepetko*[2], Hiromi Matsubara*[3], Irene Lang*[3]

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**C23** VENTILATION/PERFUSION SCINTIGRAPHY FOR THE DIAGNOSIS OF CTEPH AFTER SPLENECTOMY
Mario Gerges*[1], Christian Gerges*[1], Karanakis Georgios*[1], Wolfgang Birkfellner*[2], Isolde Maria Weinberg*[2], Ilse Schwarzsinger*[2], Max Publig*[3], Nika Skoro-Sajer*[3], Maria Frey*[3], Michael Schaffarcich*[3], Johannes Jakowitsch*[3], Klaus Lechner*[3], Bernhard Moser*[3], Taghavi Sharokh*[3], Walter Klepetko*[3], Marcus Hacker*[3], Irene Marthe Lang*[3]

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**C24** EXPERIENCE OF ONE YEAR OF BALLOON PULMONARY ANGIOPLASTY IN A SINGLE CENTER: SAFETY AND SHORT TERM RESULTS
Enrico Gott*[1], Massimiliano Palazzini, Andrea Rinaldi, Fabio Dardi, Enrico Monti, Alessandra Albini, Elisa Zuffa, Daniele Guarino, Filippo Pasca, Rita Tanese, Mariangela Rotunno, Antonio Colangelo, Alessandra Manes, Nazzareno Galì
University of Bologna, Department of Specialized Diagnostic and Experimental Medicine - DIMES - Bologna - IT – Bologna – Italy

**C25** EXERCISE RIGHT HEART CATHETERIZATION IN PATIENTS WITH CHRONIC THROMBOEMBOLIC DISEASE – THERE IS A NEED FOR DEFINITION OF EXERCISE PULMONARY HYPERTENSION
Stefan Guth*[1], Christoph Wiedenroth*[1], Rieth Andreas*[1], Christoph Liebetrau*[1], Manuel Richter*[1], Hossein Ardeschir Ghofrani*[1], Eckhard Mayer*[1]

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**C26** END-STAGE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: UNIQUE MOLECULAR AND HISTOPATHOLOGICAL IMPRINT
Dijana Iloska*[1], Jochen Wilhelm*[2], Stefan Guth*[1], Rajkumar Sava*[1], Ralph Schermuly*[1], Ludger Fink*[1], Werner Seeger*[1], Eckhard Mayer*[1], Soni Pullamsetti Sava*[1]

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**C27** USEFULNESS OF PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY FOR CHRONIC PULMONARY THROMBOEMBOLIC DISEASE
Takumi Inami*[1], Masaharu Kataoka*[1], Yohei Shigeta*[1], Koai Takeuchi*[1], Hanako Kikuchi*[1], Ayumi Goda*[1], Haruhisa Ishiguro*[1], Hideaki Yoshino*[1], Toru Satoh*[1]

*1Kyorin University School of Medicine – Tokyo – Japan, *2Keio University School of Medicine – Tokyo – Japan

**C28** THE RELATIONSHIP BETWEEN THE DIAMETER OF BRONCHIAL ARTERIES AND THE RISK OF PULMONARY EDEMA OR AIRWAY BLEEDING FOR PULMONARY ENDARTERECTOMY
Takayuki Jujo*, Tanabe Nobuhiko, Sakao Seichiro, Akira Naito, Suda Rika, Kasai Hajime, Nishimura Rintaro, Sugiuira Yoshihiko, Ishida Keiichi, Tatsumi Kichiro
Graduated School of Medicine, Chiba University – Chiba – Japan
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**C29** HOW DIFFERENT IS CENTRAL VERSUS PERIPHERAL CTEPH?
Monika Kaldararova¹,², Marcela Bohaceková¹,², Jozef Pacák¹,², Tatiana Valkovicová³, Anna Remkova³, Pavel Jansal³, Jaroslav Lindner³, Iveta Simikova³

¹Department of Cardiology and Angiology, Slovak Medical University and National Institute of Cardiovascular Diseases – Bratislava – Slovakia, ²Department of Internal Medicine, Slovak Medical University – Bratislava – Slovakia, ³Center for Pulmonary Hypertension, General Teaching Hospital and Ist Faculty of Medicine of Charles University – Prague – Czech Republic, ⁴2nd Surgical Department-Department of Cardiovascular Surgery, General University Hospital and the First Faculty of Medicine, Charles University – Prague – Czech Republic

**C30** CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION IN FIRSTLY DIAGNOSED PULMONARY EMBOLISM: INCIDENCE, PREDICTORS, AND PROGNOSTIC IMPLICATIONS
Kye Hun Kim*, Hyukjin Park, Jae Yeong Cho, Hyun Ju Yoon, Jong Chun Park
Chonnam National University Hospital – Gwangju – Korea, Republic of

**C31** FEASIBILITY AND SAFETY OF SHORTENING HOSPITAL STAY IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION TREATED WITH BALLOON PULMONARY ANGIOPLASTY
Mai Kimura*, Takashi Kohno, Takashi Kawakami, Masaharu Kataoka, Toshimitsu Tsugui, Sarasa Isobe, Shin-suke Yuasa, Yui Itabashi, Mitsushige Murata, Keiichi Fukuda
Department of Cardiology, Keio University School of Medicine – Tokyo – Japan

**C32** EVALUATION OF HEMODYNAMIC RESPONSES TO EXERCISE IN PATIENTS WITH CTEPH AFTER BALLOON PULMONARY ANGIOPLASTY
Sugimura Koichiro*, Aoki Tatsuo, Tatebe Shunsuke, Yamamoto Saori, Yoaita Nobuhiro, Sato Haruka, Kozu Katsuya, Konno Ryo, Shimokawa Hiroaki
Department of Cardiovascular Medicine, Tohoku University Graduate School of Medicine – Sendai – Japan

**C33** CHANGES IN VESSEL DIAMETER AND LOCAL ELASTIC PROPERTIES OF PULMONARY ARTERIES AFTER BALLOON PULMONARY ANGIOPLASTY.
Wojciech Magon*, Jakub Stepinski, Marcin Waligora, Kamil Jonas, Piotr Podolec, Grzegorz Kopeć
Department of Cardiac and Vascular Diseases, Jagiellonian University Medical College at John Paul II Hospital – Krakow – Poland

**C34** 3D PRINTING IN PATIENTS WITH PULMONARY HYPERTENSION
Athanasios Manginas*¹,², Georgios Bobas²
¹Mediterraneo Hospital – Athens – Greece, ²Univ. of Dundee – Dundee – United Kingdom

**C35** DRUG-DRUG INTERACTION EVALUATION BETWEEN DIRECT ORAL ANTICOAGULANTS AND PHOSPHODIESTERASE-5 INHIBITORS: A POTENTIAL RISK FOR PULMONARY HYPERTENSION PATIENTS?
Víctor Margelidon-Cozzolino*¹,², Sophie Hodin²,³, Xavier Delavenne²,³, Laurent Bertoletti²,³
¹INSERM U1059, laboratoire SAINBIOSE – Saint-Priest-en-Jarez – France, ²Faculté de Médecine de Saint-Etienne – Saint-Etienne – France, ³Centre Hospitalier Universitaire de Saint-Etienne – Saint-Priest-en-Jarez – France

**C36** PULMONARY ENADERTERECTOMY: BOLOGNA UNIVERSITY EXPERIENCE
Sofia Martin-Suarez¹,², Gregorio Gliozzi¹,², Nazareno Galiè³, Davide Pacini³
¹Cardiac Surgery Dept. S. Orsola Hospital – Bologna – Italy, ²Dept. of Experimental, Diagnostic and Specialty Medicine-DIMES, Bologna University – Bologna – Italy

**C37** MULTI-STEP THERAPY WITH RIOCIUGAT, BALLOON PULMONARY ANGIOPLASTY, AND CARDIAC REHABILITATION FOR INOPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Takeshi Ogo*, Shigefumi Fukui, Yoichi Goto, Nao Konagai, Ryotaro Asano, Jin Ueda, Akihiro Tsuji, Yoshiaki Morita, Michio Nakashishi, Keiichi Fukuda, Satoshi Yasuda, Michio Nakashishi
National Cerebral and Cardiovascular Centre – Osaka – Japan

**C38** RESIDUAL RIGHT VENTRICULAR REMODELING FOLLOWING BALLOON PULMONARY ANGIOPLASTY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Takeshi Ogo*,¹, Ryotaro Asano¹,², Ohta-Ogo Keiko²,³, Shigefumi Fukui³,³, Akihiro Tsuji¹,², Jin Ueda¹,², Nao Konagai³,³, Keiichi Fukuda³,³, Yoshiaki Morita³,³, Satoshi Yasuda³,³
¹Department of Cardiovascular Medicine, National Cerebral and Cardiovascular Center – Osaka – Japan, ²Department of Pathology, National Cerebral and Cardiovascular Center – Osaka – Japan, ³Department of Radiology, National Cerebral and Cardiovascular Center – Osaka – Japan

**C39** CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION ASSOCIATED WITH CHRONIC SYNTHETIC CANNABINOIDS ‘BONZAI’ USE
Gül Öngen¹,², Ersan Atahani¹,², Burçak Kılıçkiran Avci²,³, Bedrettin Yıldızel²,³
¹Istanbul University, Cerrahpasa Medical Faculty, Pulmonary Department – Istanbul – Turkey, ²Istanbul University, Marmara Medical School, Thoracic Surgery – Istanbul – Turkey, ³Istanbul University, Cerrahpasa Medical Faculty, Cardiology Department – Istanbul – Turkey
C40  PULMONARY BLOOD VOLUME BY DUAL-ENERGY CT IS A NEW MANAGEMENT INDEX FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Hiroyuki Onishi1, Nakayama Kazuhiko2, Yanaka Kenichi2, Tamada Naoki2, Izawa Yuu2, Shinkura Yuto2, Tsuboi Yasunori3, Shimoyama Shinsetsu4, Nishii Tatsuya1, Kono Atushi7, Negi Noriyuki8, Mori Shumpei5, Otake Hiromasa7, Satomi-Kobayashi Seimi7, Shinkle Toshiro7, Emoto Noriaki6, Hirata Ken-ichi2
1Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine – Kobe – Japan, 2Department of Radiology, Center for Radiology and Radiation Oncology, Kobe University Hospital – Kobe – Japan, 3Department of Radiology, Kobe University Graduate School of Medicine – Kobe – Japan, 4Department of Clinical Pharmacy, Kobe Pharmaceutical University – Kobe – Japan, 5Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine ~ Kobe ~ Japan, 6Department of Radiology, Kobe University Graduate School of Medicine – Kobe – Japan, 7Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine ~ Kobe ~ Japan

C41  REPEATED EMBOLIZATION COMBINED WITH INHIBITION OF ANGIogenesis RESULTS IN EARLY CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION IN RABBITS
Rozenn Quarc2, Allard Wagenaar1, Birger Tielemans1, Frédéric Perrofi3, Peter Dorfmüller1, Catharina Belge2, Marion Delcroix2
1KU Leuven ~ Leuven ~ Belgium, 2University Hospitals Leuven ~ Leuven ~ Belgium, 3University Paris Sud ~ Le Plessis Robinson ~ France

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Wen Ruan5,1, Kevin Quahi1, Jonathan Yap1, Aidila Binte Ismail1, Duu Wen Sew2, Ghee Chee Phua5, Al Leen Ang5, Foong Koon Cheah5, Kenny Loh1, Chia Alicia Xue Fern1, Choong Hee Lim1, Jenkins David2, Victor Tan Toong Chao5, Soo Teik Lim1, Ju Le Tan1
1National Heart Centre Singapore – Singapore ~ Singapore, 2Singapore General Hospital – Singapore ~ Singapore, 3SINGAPORE General Hospital NHS trust ~ London ~ United Kingdom

C43  SUBCUTANEOUS TREP radarinil FOR THE TREATMENT OF NON-OPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: A RANDOMIZED, CONTROLLED TRIAL (CTREPH)
Roela Sadushi-Kolic4,5, Pavel Jansal1, Grzegorz Kopeć2, Adam Torbicki2, Ioana-Alexandra Campean4,5, Gert Hoeffken4,5, Niko Skoro-Sajer6, Iveta Simkova7, Kristof Karloca7, Regina Steringer-Mascherbauer4,5, Miroslav Samarzija1, Barbara Salobir1,2, Walter Klepetko1,2, Irene Marthe Lang4,5
1Charles University of Prague, Cardiology – Prague ~ Czech Republic, 2Department of Cardiac and Vascular Diseases Jagiellonian University Medical College Centre for Rare Cardiovascular Diseases John Paul II Hospital ~ Krakow ~ Poland, 3John Paul II Hospital, Cardiac and Vascular Diseases Centre for Rare Cardiovascular Diseases – Warsaw ~ Poland, 4Medical University of Vienna, Internal Medicine II, Cardiology – Vienna ~ Austria, 5Internal Medicine I, Pulmonary Disease, University Carl Gustav Carus Dresden – Germany, 6Slovak Medical University, Cardiology – Bratislava ~ Slovakia, 7Semmelweis University Heart Center, Cardiology – Budapest ~ Hungary, 8Elisabethinen University Teaching Hospital, Cardiology – Linz ~ Austria, 9University Hospital Centre Zagreb, Respiratory Diseases – Zagreb ~ Croatia, 10University Medical Centre of Ljubljana, Internal Medicine, Pulmonary Diseases and Allergy – Ljubljana ~ Slovenia, 11Medical University of Vienna, Thoracic Surgery ~ Vienna ~ Austria, 12Charles University of Prague, Cardiovascular Surgery ~ Prague ~ Czech Republic

C44  THE ESC/ERS RISK ASSESSMENT INSTRUMENT FOR PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION IS ALSO APPLICABLE IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Anna Sandqvist5,1, David Kyllhammar2, Barbro Kjellström2, Stefan Söderberg1
1Department of Pharmacology and Clinical Neuroscience, Clinical Pharmacology, Umeå University ~ Umeå ~ Sweden, 2Department of Clinical Physiology and Department of Medicine and Health Sciences, Linköping University ~ Linköping ~ Sweden, 3Department of Medicine, Cardiology Unit, Karolinska Institute – Stockholm ~ Sweden, 4Department of Public Health and Clinical Medicine, Heart Centre, Umeå University ~ Umeå ~ Sweden

C45  A TREATMENT GOAL TO IMPROVE RENAL FUNCTION AFTER BALLOON PULMONARY ANGIOPLASTY IS REDUCING PULMONARY VASCULAR RESISTANCE IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Isobe Sarasa*, Itabashi Yuji, Kawakami Takeshi, Kataoka Masaharu, Murata Mitsuhige, Fukuda Keiichi
Keio university ~ Tokyo ~ Japan
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C46 EARLY OUTCOMES FOLLOWING PULMONARY ENDARTERECTOMY: AN AUSTRALIAN TERTIARY REFERRAL CENTRE EXPERIENCE
Sarah Scheuer[1], Sam Emmanuel[2], Anne Keaghi[3], Joanna Peepke-Zaba[4], David Jenkins[4], David Boshell[3], Eugene Kotyra[3], Kumud Dhital[4]

C47 PREDICTORS FOR WORSENING HEMODYNAMICS DURING FOLLOW-UP PERIOD AFTER BALLOON PULMONARY ANGIOPLASTY
Yuto Shinkura*[1], Kazuhiko Nakayama[2], Hiroyuki Onishi[1], Naoki Tamada[1], Yasunori Tsuibo[1], Hiromasa Otake[2], Seimi SATOMI-KOBAYASHI[1], Toshiro Shinkin[2], Noriaki Emoto[1], Ken-Ichi Hirata[2]
[1]Department of Clinical Pharmacy, Kobe Pharmaceutical University, Japan – Kobe – Japan, [2]Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine – Kobe – Japan

C48 A SIMPLE PREDICTIVE ALGORITHM FOR MORTALITY RISK IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Nika Skoro-Sajer*[1], Christian Gerges[1], Mario Gerges[1], Adelheid Panzenböck[1], Johannes Jakowitsch[1], Walter Klepetko[1], David Celermajer[1], Irene Lang[1]
[1]Cardiology, Medical University of Vienna – Vienna – Austria, [2]Department of Cardiothoracic Surgery – Vienna – Austria, [3]Division of Cardiovascular Medicine, Department University Graduate School of Medicine – Vienna – Austria

C49 CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION MIMICS PULMONARY EMBOLISM
Andris Skride*, Dana Kigitovica, Valdis Gibietis, Barbara Vitola, Sintija Strautmane
Dr – Riga – Latvia

C50 SAFETY AND EFFICACY OF DIRECT ORAL ANTIMOBULANTS FOR PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION IN ONE EXPERT CENTER IN JAPAN
Rika Suda*, Nobuhirō Tanabe, Takayuki Jujo, Akira Naito, Rintaro Nishimura, Toshihiko Sugiura, Seiichiro Sakao, Koichiro Tatsumi
Department of Respiration, Graduate School of Medicine, Chiba University – Chiba – Japan

C51 PULMONARY ENDARTERECTOMY AND BALLOON PULMONARY ANGIOPLASTY SIMILARLY IMPROVE HEALTH RELATED QUALITY OF LIFE IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION.
Naoki Tamada*[1], Kazuhiko Nakayama[1], Ken-Ichi Yanaka[1], Hiroyuki Onishi[1], Yuto Shinkura[1], Kazuhiro P Izawa[2], Toshiro Shinkin[2], Noriaki Emoto[1], Ken-Ichi Hirata[2]
[1]Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine – Kobe – Japan, [2]Graduate School of Health Sciences, Kobe University – Kobe – Japan, [3]Clinical Pharmacy, Kobe Pharmaceutical University – Kobe – Japan

C52 POOR SUBPLEURAL PERFUSION RELATING TO LESS DEVELOPED BRONCHIAL ARTERIES PREDICTS FAILURE AFTER BALLOON PULMONARY ANGIOPLASTY FOR NON-OPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Yu Taniguchi*[1], Philippe Brenot[1], Xavier Jais[1], Carlos Garcia[1], Olivier Planché[1], Elie Fadel[1], Marc Humbert[2], Gerald Simonneau[2]

C53 THE WALL SHEAR STRESS OF THE PULMONARY ARTERIES IN THE PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION BEFORE AND AFTER BALLOON PULMONARY ANGIOPLASTY; ANALYSIS USING COMPUTATIONAL FLUID DYNAMICS.
Hideo Tsubata*[1], Nakanishi Naohiko[1], Itatani Keiichi[2], Fukai Kuniyoshi[1], Yaku Hitoshi[2], Matoba Satoaki[1]

C54 HYDATID EMBOLIZATION RELATED CHRONIC PULMONARY HYPERTENSION
Omac Tufekcioglu*[1], Idris Yakut[1], Yucel Kanal[1], Ilke Erbay[1], Funda Dereagzi[1], Yesim Akin[1], Levent Birincioglu[1], Hatice Sasmaz[1]
[1]Turkey Yuksek Ihtisas Hospital, Cardiology – Ankara – Turkey, [2]Turkey Yuksek Ihtisas Hospital, Cardiovascular Surgery – Ankara – Turkey
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C55  CASE SERIES OF SEVEN WOMEN WITH UTERINE FIBROIDS LEADING TO THROMBOEMBOLIC DISEASE AND CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Anjali Vaidya*, Anne-Sophie Lacharite-Roberge[1], Farhan Raza[2], Riyaz Bashir[3], Chandra Dass[4], Yoshiya Toyoda[3], Paul Forfia[2]

C56  INITIAL CLINICAL AND HEMODYNAMIC RESULTS OF A REGIONAL PULMONARY THROMBOENDARTERECTOMY PROGRAM
Anjali Vaidya*, Farhan Raza, Anne-Sophie Lacharite-Roberge, Chandra Dass, Riyaz Bashir, Toyoda Yoshiya, Paul Forfia
Temple Heart and Vascular Institute – Philadelphia – United States of America

PEDIATRIC PH

C60  PULMONARY ARTERY HYPERTENSION IS ASSOCIATED WITH DECREASED CARDIAC OUTPUT IN FONTAN PATIENTS
Vincent Aluquin*[1], Athira Nair[2], William Lee[3]

C61  INTRAVENOUS TREPROSTINIL AND OCCULT FRACTURES IN INFANTS: MORE THAN A CASUAL CORRELATION?
Meghan Bernier*, Lewis Romer
Johns Hopkins School of Medicine – Baltimore – United States of America

C62  THE CARDIOPULMONARY EXERCISE TESTING IN CHILDREN AND ADOLESCENTS WITH PULMONARY ARTERIAL HYPERTENSION.
Mariana Cazalas*, Ines Abella, Alejandro Tocci, Claudio Moros, Maria Sicurello, Haydee Vazquez, Maria Grippo
Argentine Society of Cardiology – Buenos Aires – Argentina

C63  PEDIATRIC PULMONARY HYPERTENSION AT CHILDREN HOSPITAL “DR RICARDO GUTIERREZ” BUENOS AIRES, ARGENTINA
Mariana Elisa Cazalas*, Maria Grippo, Ines Abella, Haydee Vazquez, Maria Sicurello, Alejandro Goldsman, Angela Sardella, Isabel Torres
Argentine Society of Cardiology – Buenos Aires – Argentina

C64  PEDIATRIC PULMONARY HYPERTENSION AND CONGENITAL HEART DISEASE. EXPERIENCE AT CHILDREN HOSPITAL “DR. RICARDO GUTIERREZ” BUENOS AIRES, ARGENTINA.
Mariana Elisa Cazalas*, Maria Grippo, Haydee Vazquez, Alejandro Goldsman, Maria Sicurello, Alberto Quilindro, Angela Sardella, Ines Abella
Children’s Hospital Dr Ricardo Gutiérrez. Buenos Aires. Argentina – Buenos Aires – Argentina
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| **C65** | OUTCOMES OF TREATMENTS OF SELECTIVE PULMONARY VASODILATORS AFTER THE TRANSCATHETER CLOSURE IN ATRIAL SEPTAL DEFECT WITH PULMONARY ARTERIAL HYPERTENSION | Jae Young Choi*, Kim Jung Yoon, Kim Ah Young, Jung Jo Won, Jung Se Yong  
Division of Pediatric Cardiology, Congenital Heart Disease Center, Severance Cardiovascular Hospital, Department of Pediatrics, Yonsei University College of Medicine, Seoul – Seoul – Korea, Republic of |  |
| **C66** | COMPARISON BETWEEN PAEDIATRIC AND ADULT PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION | Fabio Dardi*, Alessandra Manes, Massimiliano Palazzini, Elisa Zuffa, Enrico Gotti, Andrea Rinaldi, Alessandra Albini, Enrico Monti, Daniele Guarrino, Filippo Pasca, Nikita Tanese, Antonio Colangelo, Mariangela Rotunno, Andrea DONTI, Nazzareno Gallié  
University of Bologna, Department of Specialized Diagnostic and Experimental Medicine – DIMES - Bologna/IT – Bologna – Italy |  |
| **C67** | ATRIAL SEPTAL DEFECT FENESTRATED DEVICES IN CHILDREN WITH SEVERE PULMONARY HYPERTENSION | Anne Fournier*, Francisco Gonzalez-Barlatay, Maire-Josee Raboisaïon, Julie Briere, Nagib Dahdah  
CHU me-re-enfant Sainte-Justine – Montreal – Canada |  |
| **C68** | EPIDEMIOLOGICAL CHARACTERISTICS OF PULMONARY ARTERIAL HYPERTENSION IN THE PEDIATRIC POPULATION. REGISTRATION OF A MEXICAN NATIONAL CENTER. | Humberto Garcia*, Emilia Covian, Sandra Patricia Antunez, Eduardo Melendez, Ramon Flores, Antonio Salgado  
ISSSTE – Mexico – Mexico |  |
| **C69** | ECONOMIC EVALUATION AND BUDGET IMPACT ANALYSIS OF A PEDIATRIC PULMONARY HYPERTENSION PROGRAM IN MEXICO. | Humberto Garcia*, Silvia Guzman**, Enrique Gomez Alvarez**, Maria Emilia Covian**  
Araceli Olivares**, Herman Soto**  
**ISSSTE – Mexico – Mexico, **H5 – Mexico – Mexico, **Mexico – Mexico |  |
| **C70** | VENTRICULAR ARTERIAL COUPLING RATIO AND VOLUMES CORRELATE WITH RIGHT VENTRICULAR STRAIN AND PREDICTS OUTCOMES USING THREE-DIMENSIONAL ECHOCARDIOGRAPHY IN PEDIATRIC PULMONARY HYPERTENSION | Pei-Ni Jone*, Michal Schäfer, Dunbar Ivy  
Children's Hospital Colorado, University of Colorado School of Medicine – Aurora – United States of America |  |
| **C71** | COMPARATIVE ANALYSIS OF DETERMINING RISK FACTORS OF PNEUMOTHORAX COMPLICATING PERSISTENT PULMONARY HYPERTENSION OF THE NEWBORN IN THAI NEONATES | Narongsak Nakwan*, Sutthikit Jaroenratt, Wuttichart Kamolvisit  
Department of Pediatrics, Hat Yai Hospital – Songkhla – Thailand |  |
| **C72** | A CASE OF ATRIAL SEPTAL DEFECT ASSOCIATED PULMONARY ARTERIAL HYPERTENSION RELATED TO EISENMENGER'S SYNDROME | Hideomi Sorimachi*, Noriaki Takama, Masahiko Kurabayashi  
Department of Cardiovascular Medicine, Gunma University Graduate School of Medicine – Maebashi – Japan |  |
| **C73** | FIRST-IN-CHILD USE OF THE SOLUBLE GUANYLATE CYCLASE STIMULATOR ROCIGUAT IN PULMONARY ARTERIAL HYPERTENSION | Till Spreemann*, Christoph Happel, Harald Bertram, Georg Hansmann  
Hannover Medical School – Hannover – Germany |  |
| **C74** | IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION IN PEDIATRICS: VALIDITY OF DOPPLER COLOR ECHOCARDIOGRAM FOR THE NON-INVASIVE DIAGNOSIS | Carolina Stepffer*, Adelia Marques, Julieta Rancati, Ines Martinez, Jesus Damsky Barbosa  
hospital elizalde – buenos aires – Argentina |  |
| **C75** | CONGENITAL HEART DEFECT WITH PULMONARY HYPERTENSION: IS POSSIBLE A SURGICAL CORRECTION AFTER TREATMENT WITH SILDENAFIL? | Carolina Stepffer*, Maria Adelia Marques, Ines Martinez, Ana De Dios, Jesus Damsky Barbosa  
hospital elizalde – buenos aires – Argentina |  |
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PATIENTS’ PERSPECTIVES

C76  PHARMACOECONOMIC BURDEN OF PULMONARY HYPERTENSION IN DIFFERENT HEALTH CARE SYSTEMS
Charles Burger D.*, Mohamedanwar Ghandour, Divya Padmanabhan Menon
Mayo Clinic – Jacksonville, Florida – United States of America

C77  INTERNATIONAL ENVIRONMENTAL SCAN OF SPECIALIZED PULMONARY HYPERTENSION CLINICS
Carolyn Doyle-Cox*, Gail Nicholson, Wendy Gin-Sing, Traci Stewart
University of Ottawa Heart Institute – Ottawa – Canada, Alberta Health Services – Alberta – Canada, Hammersmith Hospital – London – United Kingdom, University of Iowa – Iowa – United States of America

C78  ORAL UPFRONT COMBINATION THERAPY IN PATIENTS WITH CONNECTIVE TISSUE DISEASE-ASSOCIATED PULMONARY ARTERIAL HYPERTENSION: FROM A RETROSPECTIVE COHORT STUDY
Kentaro Ejiri*, Satoshi Akagi, Toshihiro Sarashina, Kazufumi Nakamura, Hiroshi Ito
Okayama University – Okayama – Japan

C79  ASSESSMENT OF LUNG ULTRASONOGRAPHY AS PREDICTOR OF PULMONARY INVOLVEMENT IN A COHORT OF PATIENTS AFFECTED BY SYSTEMIC SCLEROSIS COMPLICATED BY EITHER INTERSTITIAL LUNG DISEASE OR PULMONARY ARTERIAL HYPERTENSION
Elisa Tinazzi*, Federico Confente, Gloria Tacchella, Giuseppe Patuzzo, Claudio Lunardi
University of Verona – Verona – Italy
GENERAL INFORMATION

CONGRESS LOCATION
Nice Acropolis Congress Center
Entrance for the public from Risso Boulevard, Nice
Ph: +33 (0)4 93 92 83 00
Fax: +33 (0)4 93 92 82 55

OFFICIAL LANGUAGE
The official language of the Symposium is English.

SECURITY CHECKPOINT
For safety reasons, every person accessing to the Nice Acropolis Congress Center has to go through a Security Checkpoint placed at the entrance. We suggest to all participants to arrive in due time.

REGISTRATION
Every registered attendee can collect his/her congress kit at the Registration Desk placed in Agora 1 after the main entrance. New Registrations are accepted onsite only with payment by credit/debit card.

REGISTRATION FEES (VAT INCLUDED)

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<td>University &amp; public/private hospital physicians*</td>
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* To benefit from this Registration Fee, the participant must provide the Organizing Secretariat with a document testifying his/her affiliation to the University/Hospital.

The Registration Fee includes:
- Admission to Scientific Sessions, congress kit, coffee breaks and lunches.
- Accompanying persons are not accepted in the Congress Area.

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Participants are requested to wear their congress badge during all sessions, coffee breaks, lunches.
- Badges colored stripes:
  - RED: TASK FORCES
  - BLUE: ATTENDEES
  - YELLOW: SPONSORS
  - GREY: ORGANIZATION STAFF

REGISTRATION AND POSTER DESK
The desks are open during the congress as follows:
- Monday February 26 from 16.00 to 19.00
- Tuesday February 27 from 07.30 to 19.00
- Wednesday February 28 from 08.00 to 17.30
- Thursday March 1 from 08.00 to 17.30

INTERNET CONNECTION
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Through a WEBAPP the audience is kindly requested to attend the interactive part of each TF session. Instructions are given onsite. The use of the voting system is reserved to PHYSICIANS employed in Universities or Hospitals (no pharmaceutical companies staff); the Organizing Secretariat invites any participant to comply with this guideline.

COFFEE BREAKS AND LUNCHES
Coffee breaks are arranged in Agora 2, outside the Meeting Hall. Lunches are served in Agora 3, while desserts and coffees in Agora 2, next to the Posters Area.
- No accompanying person is allowed to access coffee breaks and lunches during the Conference.

BAR
Mykonos Bar is open during the Conference at Acropolis Center (drinks upon payment).

CERTIFICATE OF ATTENDANCE
The certificate of attendance is available on request at the Registration Desk.

ABSTRACT BOOK
The Posters Abstract Book is published on the Symposium Website: www.wsph2018.com
GENERAL INFORMATION

INFORMATION FOR SPEAKERS, POSTER PRESENTERS AND AWARDED BEST POSTERS

SPEAKERS: Slide center opening times
Monday February 26 from 16.00 to 19.00
Tuesday February 27 from 07.30 to 19.00
Wednesday February 28 from 08.00 to 17.30
Thursday March 1 from 08.00 to 17.30

Speakers are kindly requested to reach our technical support team in the slide center not later than 2 hours before the relevant scheduled session in order to copy the presentations onto the meeting computer.
Presentations must be in Power Point and no personal computer is allowed.
The operating system is Microsoft Windows Office 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
Touch screens are available in the Posters Area to find any poster and author name.
The number of the corresponding panel (where the poster must be fixed) is indicated near each name.
In the Posters Area, presenters can find the necessary material to hang their posters.
Our staff is in assistance to the presenters to fix their posters in the Posters Area (Agora 2).

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 from 7.30 to 9.00 and also the day before February 26 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 exhibition within 19.30.
At 19.30 of the same day, our Organization will remove and eliminate all posters not dismounted.

POSTER PRESENTATION
Although no poster discussion is planned, the poster presenters are kindly invited to be near their posters during lunch time in order to assist attendees interested in having information on their works.

BESTS POSTER AWARDS CEREMONY
All winners are kindly requested to be present in Apollon hall on February 27 at 12.30 for the Best Poster Awards Ceremony.

EACCME CREDITS
The 6th WORLD SYMPOSIUM ON PULMONARY HYPERTENSION, Nice, France, 27/02/2018 - 01/03/2018 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 19 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.
Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits ™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.
Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

EACCME® credits
Each participant can only receive the number of credits he/she is entitled to, according to his/her actual participation at the event once he/she has completed the feedback form. Cf. criteria 9 and 23 of UEMS 2016.20.
In order to help you issue individual certificates to each participants, please find below the breakdown of ECMEC®s per day:
27.02.2018 - 7,00
28.02.2018 - 6,00
01.03.2018 - 6,00

The EACCME® awards ECMEC®s on the basis of 1 ECMEC® for one hour of CME with a maximum of 8 ECMEC®s per day. Cf. Chapter X of UEMS 2016.20.
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 “Hôpital Pasteur”; Stop at “Acropolis”.

From the train station:
Take the tramway towards “Hôpital Pasteur”; 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 TRAMWAY
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) near the Ray Stadium and the A8 motorway, all the way to “Hôpital Pasteur”.
Name of the tramway stop for the congress: ACROPOLIS.
Due to Carnival Parades to be held on some days of the Symposium, the tram circulation could be redirected.
For further information: http://en.nicecarnaval.com/access-transport-and-parking

PRIVACY POLICY AND DIFFUSION OF THE IMAGES
Pursuant to art. 13 of Legislative Decree no. 196/2003, the personal data of the participants, the video footage and the photographs taken at the World Symposium on Pulmonary Hypertension will be processed by I & C S.r.l. exclusively for purposes related to the communication and enhancement of this event.
The provision of personal data is optional, but any refusal to provide such data will not allow you to participate in video and photo shoots.
The processing will be carried out thanks to adequate tools to guarantee security and privacy and can be carried out also through automatic tools that will memorize, manage and transmit the data.
Images will be sent, communicated, shown only to third parts appointed to carrying out the necessary activities for the purposes mentioned above and will eventually be publicized through publications on the event website for the strict necessary time to carry out the purposes of the processing.
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In relation to the data provided, each participant may exercise the rights referred to art. 7 of Legislative Decree no. 196/2003, by contacting the Data Controller at the addresses indicated above.

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