6th WORLD SYMPOSIUM ON PULMONARY HYPERTENSION

Nice
February 27-28 / March 1, 2018
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
  Bologna, Italy
- Ardeschir H. Ghofrani, MD
  Giessen, Germany
- Marc Humbert, MD
  Paris, France
- Anne Margaret Keogh, MD
  Sydney, Australia
- Michael D. McGoon, MD
  Rochester, MN - USA
- 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
- Gérard Simoneau, MD
  Paris, France
- Rogério Souza, MD
  Sao Paulo, Brazil

The Symposium Secretariat

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Map of the Acropolis

CONGRESS CENTER

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Agora 2

Agora 3

Main Entrance

Registration Desks and Association Booths

Slide Center

Cloakroom

Agora 2

Posters and Coffee Break Area

Apolлон Meeting Hall

Mykonos Bar and Relax Area

Lunch Area

Posters and Coffee Break Area

Lunch Area
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<td>TF 1. Pathology &amp; Pathobiology</td>
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Scientific Program
TUESDAY, FEBRUARY 27

**APOLLON HALL**

08.30 - 09.00
**Opening Ceremony**
Nazzareno Galliè, Bologna ITALY
Vallerie V. McLaughlin, Ann Arbor MI USA
Lewis J. Rubin, La Jolla CA USA
Gérald 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
- Main bench to bedside achievements
- Recommendation on how to identify most relevant pathways
- Most appropriate cells, tissues and animal models
- Proposed Future Directions (specific and detailed)

**APOLLON 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 (why low penetrance)
- 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

APOLLO HALL
14.00-15.30
Task Force 3. Pathophysiology of the RV and of the pulmonary circulation
CHAIR: ROBERT NAEJEE, 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
SUSAN R. HOPKINS, San Diego CA USA
STEVEN M. KAWUT, Philadelphia PA USA
DAVID LANGLEBEN, Montreal CANADA
JOOST LUMENS, Maastricht THE NETHERLANDS

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)

AGORA 2
15.30-16.00
coffee break

APOLLO 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. BADESCH, 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. CHANNECK, Boston MA USA
ROBERT P. FRANTZ, Rochester MN USA
EKKEHARD GRÜNIG, 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)

**AGORA 2**

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 HOEKER, Hanover GERMANY
RAYMOND L. BENZA, Pittsburgh PA USA
PAUL A. CORRIS, Newcastle Upon Tyne UK
MARC DE PERROT, Toronto CANADA
ELIE FADEL, Paris FRANCE
ANNE M. KEOGH, Sydney AUSTRALIA
CHRISTIAN KÜHN, Hanover GERMANY
LAURENT SAVALE, Paris FRANCE

Objectives:
- State of the art
- ICU management of severe PH
- Practice recommendations
- Proposed future directions (specific and detailed)

**AGORA 2 and 3**

12.30-14.00

Lunch and posters

**APOLLO HALL**

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 RAINISIO, 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 GUAZZI, Milan ITALY
IRENE LANG, Vienna AUSTRIA
MASSIMILIANO PALAZZINI, Bologna ITALY
STEPHAN H. ROSENKRANZ, 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. GAIN, Dublin IRELAND
SERGIO HARARI, Milan ITALY
FERNANDO J. MARTINEZ, Ann Arbor MI USA
HORST OLSCHIEWSKI, 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

APOLLON HALL
11.00-12.30
Task Force 11. CTEPH
CHAIR: ARDESCHIR 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)

AGORA 2 and 3
12.30-14.00
Lunch and posters

APOLLON 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)

AGORA 2
15.30-16.00
coffee break

APOLLON 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, Yamasaki 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, Yallerie 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-Kaminsky1, Sébastien J Dumas2, Isabelle Klingel-Schmitt2, Matthieu Vocciole1, Anais Courtier1, Orchidee Filipe-Santo1, Gilles Parmentier1, Solène Perez1, Caroline Suberbie1, Sophie Caillat-Zucman1, Gerald Simonneau2, Frederic Perros2, Marc Humbert2, Morad Nakhtleh1, David Montani2, Barbara Girerd1, Andrei Seferian2, Peter Dorfmüller1

2 A GENOME-WIDE ASSOCIATION STUDY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Michael Newnham1, Mark Toshner1, Marta Bleda1, William Auger2, Joan Albert Barberà3, Harm Jan Bogaard4, John Cannon5, Gerry Coghlan6, Paul Corris7, Marion Delcroix6, John Dunning6, Heather Elding2, Simon Gibbs6, Charaka Hadinnapola1, David Jenkins1, David Kiely1, Irene Lang1, Eckhard Mayer1, Choo Ng1, Andrew Peacock1, Nicholas Screaton5, Karen Sheares1, Michael Simpson1, Nicole Soranzo1, Dolores Taboada1, Richard Trembath1, Steven Tsui1, Martin Wilkins11, Stephen John Wort1, Joanna Pepke-Zaba1, Nicholas Moorrell11

3 GENETIC ANALYSIS OF 2,156 WHO GROUP 1 PAH PATIENTS ENROLLED IN THE PAH BIOBANK
Michael Pauciulo*, Katie Lutz, Anna Walsworth, Lisa Martin, William Nichols
Cincinnati Children’s Hospital Medical Center – Cincinnati – United States of America
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 Marra¹, Christian Nagel¹, Benjamin Egenlauf¹, Satenik Harutyunova¹, Norbert Blank³, Hanns-Martin Lorenz¹, Christoph Fiehner¹, Nicola Benjini¹, Christine Fischer¹, Antonio Cittadini¹, Eduardo Bossoni¹, Ekkehard Grünig¹
¹Centre for Pulmonary Hypertension at Thoraclinic, University Hospital Heidelberg, Heidelberg, Germany – Heidelberg – Germany; ²Department of Rheumatology, University Hospital Heidelberg, Heidelberg, Germany – Heidelberg – Germany; ³Praxis für Rheumatologie und klinische Immunologie – Baden-Baden – Germany; ⁴Department of Human Genetics; University of Heidelberg – Heidelberg – Germany; ⁵Department of Translational Medical Sciences – Naples – Italy; ⁶Department, Cardiology Division, “Cava de’ Tirreni and Amalfi Coast” Hospital, University of Salerno, Salerno, Italy – Salerno – Israel

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 Song¹, Christina Alessandra Eichstaedt¹, Rebecca Rodriguez Viales¹, Nicola Benjini¹, Satenik Harutyunova¹, Christine Fischer¹, Katrin Hinderhofer¹, Ekkehard Grünig¹
¹Thoraclinic at the University Hospital Heidelberg – Heidelberg – Germany; ²European Molecular Biology Laboratory – Heidelberg – Germany; ³Institute of Human Genetics, Heidelberg University – Heidelberg – Germany

7 EFFECTIVENESS OF PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Koai Takeuchi³,¹, Takumi Inami², Masaharu Kataoka³,¹, Hanako Kikuchi²,¹, Shigeta Yohei²,¹, Ayumi Goda³,¹, Haruhisa Ishiguro³,¹, Hideaki Yoshino³,¹, Toru Sato³,¹
³Keio University School of Medicine – Tokyo – Japan, ¹Kyorin University School of Medicine – Tokyo – Japan

8 SEQUENTIAL HYBRID THERAPY WITH PULMONARY ENDARTERECTOMY AND ADDITIONAL BALLOON PULMONARY ANGIOPLASTY FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION.
Kenichi Yanaka¹, Kazuhiro Nakayama¹, Toshiro Shinkel¹, Hiromasa Otake¹, Hiroyuki Kawamoto¹, Yuto Shinkura¹, Naoki Tamao¹, Hiroyuki Onishi¹, Yasunori Tsubo²,¹, Seimi Kobayashi¹, Hiroshi Tanaka²,², Yutaka Oktai², Noriaki Emoto¹, Ken-Ichi Hiran¹
¹Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine – Kobe – Japan; ²Division 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 NATIONAL SURVEY
Mitani Yoshihide¹,¹, Sawada Hirofumi¹,¹, Nakayama Tomotaka²,¹, Fukushima Hiroyuki¹,¹, Kogaki Shigetoyo¹,¹, Igarashi Takehiro¹,¹, Ichida Fukiko¹,¹, Ono Yasuo¹,¹, Nakashini Toshio¹,¹, Doi Shozaburo¹,¹, Ishikawa Shiro¹,¹, Matsushima Masaki¹,¹, Yamada Osamu¹,¹, Sai Tsumori¹,¹
¹Waseda University Graduate School of Medicine – Tokyo – Japan, ²Toho University Omori Medical Center – Tokyo – Japan, ³Keio University School of Medicine – Tokyo – Japan, ⁴Osaka University School of Medicine – Osaka – Japan, ⁵National Cerebral and Cardiovascular Center – Osaka – Japan, ⁶Toyoama University School of Medicine – Toyama – Japan, ⁷Shizuoka Children’s Hospital – Shizuoka – Japan, ⁸Tokyo Women’s Medical University – Tokyo – Japan, ⁹Tokyo Medical and Dental University – Tokyo – Japan, ¹⁰Fukuoka Children’s Hospital – Fukuoka – Japan, ¹¹Social Insurance Chukyo Hospital – Nagoya – Japan
POSTER SESSIONS

Tuesday, February 27, 2018

PATHOLOGY AND PATHOBIOLOGY

A10 PAH-MIMICKING CHIP TO ELUCIDATE THE DISEASE PATHOGENESIS AND SCREEN ANTI-PAH DRUGS

Fakhruil Ahsan*, Taslim A Al Hilal, Ali Keshavarz

Texas Tech University 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 HYPERTENSION

Satoshi Akagi*, Tamura Yuichi, Tu Ly, Phan Carole, Thuillet Raphaël, Sékine 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*, Sébastien Dumas*, Benoît Ranchoux, Sara Shamdani, Sandrine Chantepie, Emilie Henault, David Montani, Barbara Girerd, Peter Dormuller, Elie Fadel, Philippe Darteville, Frederic Perros, Marc Humbert, Dulce Papy-Garcia, Sylvia Cohen-Kaminsky


A13 EXPERIMENTAL AND HUMAN PULMONARY VENO-OCCCLUSIVE DISEASE: SIMILARITIES AND DIFFERENCES


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A14 FORMINS MAY REGULATE ENDOTHELIAL TO MESCHYMAL TRANSITION VIA VASCULAR ENDOTHELIAL CADHERIN

Meghan Bernier*, Anil Bhatta, Lewis Romer

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A15 NEUTRALIZATION OF CXCL12 REVERSES PULMONARY VASCULAR REMODELING BY DECREASING PULMONARY ARTERIAL SMOOTH MUSCLE CELL ACCUMULATION


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A16 COMPREHENSIVE CHARACTERIZATION OF MESENCHYAL STEM CELLS IN PAH


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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 MESENCHYAL STEM CELLS IMPROVES ENGRAFTED CELL SURVIVAL AND INHIBITS MACROPHAGE ACTIVATION IN PULMONARY ARTERIAL HYPERTENSION MURINE MODEL


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A19  NMDA-TYPE GLUTAMATE RECEPTOR ACTIVATION PROMOTES VASCULAR REMODELING AND PULMONARY ARTERIAL HYPERTENSION
Sylvia Cohen-Kaminsky[1][4], Sébastien J Dumas[2], Gilles Bru-Mercier[2], Audrey Courbourlin[2], Marceau Quatredeniers[2], Catherine Rucker-Martini[2], Fabrice Antigny[2], Morad K Nakheleh[1], Benoit Ranchoux[2], Eloïde Gouadon[2], Maria Candida Vinhas[2], Matthieu Vocelle[2], Nicolas Raymond[2], Peter Dormüller[2], Elie Fadel[1], Frédéric Perros[2], Marc Humbert[1].


A20  RASSF1A REGULATES HIF-1: TRIGGERING A FEED FORWARD LOOP IN HYPOXIA DRIVEN PULMONARY HYPERTENSION
Swati Dabral[1][4], Christian Muecke[2], Rajkumar Savi[2], Chanil Valsarajan[4], Astrid Wietelmann[2], Gregg Sisternen[1], Christos Samakalidis[2], Norbert Weissmann[2], Friedrich Griminger[2], Werner Seeger[2], Renhard Dammann[2], Soni Savi Pullamsetti[1].


A21  INFLUENCE OF 16ALPHA-OHE2 ON MIGRATION AND ARYL HYDROCARBON RECEPTOR SIGNALLING IN BLOOD OUTGROWTH ENDOTHELIAL CELLS IN PAH.
Nina Denver[1][3], Craig Docherty[2], Katie Yates Harvey[1], Ruth Andrews[1], Natalie Homer[1], Nicholas Morrell[3], Margaret Maclean[1].


A22  A MEASUREMENT OF THE COMMON CAROTID ARTERY IN PATIENTS WITH PULMONARY HYPERTENSION
Gunnar Einarsson[2], Dan Henrohn[2], Frida Ulander[2], Tord Naessér[1], Marita Larsson[1], Gerhard Wikström[2].

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A23  HISTONE DEACYTLYASE 7 MEDIATES HYPOXIA-INDUCED MITOCHONDRIAL REPROGRAMING IN PULMONARY HYPERTENSION AND CANCER
Elisabetta Gamet[1][4], Prakash Chelladurai[2], Werner Seeger[2], Soni Savi Pullamsetti[1].


A24  COMPLEMENTARY AND INTEGRATED VALUE OF SIX-MINUTE WALK TEST, VE/VO2 SLOPE AND RIGHT ATRIAL STRAIN IN EARLY DETECTION OF FUNCTIONAL IMPAIRMENT AND VASCULAR INVOLVEMENT IN SYSTEMIC SCLEROSIS PATIENTS
Miriam Gravellone[1], Alia Giubertoni, Jacopo Zanaboni, Cristina Piccinino, Paolo Nicola Marino
Clinical Cardiology, “Maggiore della Carità” Hospital – Novara – Italy

A25  BIOMARKER DISCOVERY IN PULMONARY ARTERIAL HYPERTENSION: EXERCISE TRAINING, OR NIGHTLY OXYGEN
Gabrielle Gruning[1][4], Christine Eichstaedt[2], Nedim Durmus[3], Stéphanie Saxer[3], Konrad E Bloch[4], Sylvia Ulrich[4], Ekkehard Grüng[3], Serhiy Pylawka[2].


A26  CHARACTERIZATION OF RATS MUTATED IN BMPR2: THE MAIN GENETIC RISK FACTOR FOR PAH
Aurélie Hautefort[1][4], Catherine Rucker-Martini[3], Boris Manoupy[2], Melanie Lambert[4], Angele Boet[1], Florence Lecerf[1], Peter Dormüller[1], Séverine Ménoret[3], Laurent Tesson[4], Ignacio Anergo[4], David Montani[3], Barbara Gierud[4], Marc Humbert[1], Fabrice Antigny[2], Frédéric Perros[1].

A27 PROPOSAL OF CLINICAL DIAGNOSTIC CRITERIA FOR PULMONARY VENO-OCCCLUSIVE DISEASE (PVOD) BASED ON THE PVOD REGISTRY STUDY IN JAPAN
Hatuei Ishibashi-Ueda[1], Keiko Ohta-Ogō[1], Seiichiro Sakai[2], Nobuhiro Tanabe[3], Tetsuki Okai[4], Masanori Kitaichi[5], Norifumi Nakanishi[6], Toru Sato[7], Hiromi Matsubara[8], Koichi Tatsumi[9]

A28 SELENOPROTEIN P PROMOTES THE DEVELOPMENT OF PULMONARY ARTERIAL HYPERTENSION - A POSSIBLE NOVEL THERAPEUTIC TARGET
Nobuhiro Kikuchi[1], Kinsho Satoh[1], Ryo Kurosawa[1], Nobuhiro Yoyota[1], Mohammad Elias-Al-Manurai[1], Mohammad Abdul Hai Siddique[1], Junichi Omura[1], Taijuy Satoh[1], Masamichi Nogi[1], Shinichiro Sunamura[1], Satoshi Miyata[1], Yoshiro Saito[2], Yasushi Hoshikawa[2], Yoshinori Okada[2], Hiroaki Shimokawa[2]

A29 ALTERED BMP SIGNALING BY ENDOTHELIN-1 TO ACCELERATE PROLIFERATION OF SMOOTH MUSCLE CELLS
Hidekazu Maruyama[1], Satoshi Sakai[1], Kazutaka Aonuma[2]

A30 SMOOTH MUSCLE PRIMES ENDOTHELUM FOR REGENERATION BY LINKING METABOLISM TO EPIGENETICS
Kazuya Miyagawa*, Minyi Shi, Pin-L Chen, Jan Hennigs, Zhixin Zhao, Mouer Wang, Caizuy Li, Toshie Saito, Shalina Taylor, Silin Sa, Aiqin Cao, Lingli Wang, Michael Snyder, Marlene Rabinovitch
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A31 COMPARATIVE PHYSIOLOGICAL EVALUATION OF THE STATUS OF PULMONARY HEALTH IN YOUNG SMOKERS AND NON-SMOKERS
Natalia Mokina*, Vasiliy Putilin, Egor Mokin
Samara State Medical University – Samara – Russian Federation

A32 SCREENING OF AUTOANTIBODIES IN PATIENT WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION AND ITS VALIDATION IN PATIENT WITH PULMONARY HYPERTENSION
Akira Naito*[1], Tanabe Nobuhiro[2], Hiwasa Takaki[3], Jujo Takayuki[3], Sugiuira Toshihiko[1], Sakao Seiichiro[1], Tatsumi Koichiro[1]
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A33 PULMONARY VASCULAR REMODELING PATTERNS AND EXPRESSION OF GCN2 IN PULMONARY VENO-OCCCLUSIVE DISEASE
Esther Nossent[1], Antigny Fabrice[2], David Montani[3], Ham Jan Bogaard[4], Maria-Rosa Ghigna[1], Mélanie Lambert[3], Vincent Thomas De Montpréville[1], Barbara Gierd[5], Xavier Jaïs[3], Laurent Savale[1], Olaf Mercier[5], Elie Fade[5], Florent Soubrier[6], Olivier Sitbon[3], Gérard Simonneau[3], Anton Vonk Noordegraaf[3], Marc Humbert[3], Frédéric Perros[3], Peter Dorfmüller[4]

A34 WIDE COMPARATIVE STUDY ON ANTIPIROLIFERATIVE VS. VASODILATOR EFFECTS OF DRUGS USED FOR PULMONARY HYPERTENSION IN RAT AND HUMAN ARTERIES
Francisco Perez-Vizcaino*[1], Daniel Morales-Cano[1], Blanca Barreira[1], Laura Moreno[1], Joan A Barbera[1], Ángel Cogolludo[1]
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A35 GUT-LUNG CONNECTION IN PULMONARY ARTERIAL HYPERTENSION
Frederic Perros*,1, Benoit Ranchoux1, Amélie Bigorgne1, Aurélie Hautefort1, Barbara Girerd1, Olivier Sitbon1, David Montani2, Marc Humbert1, Colas Tcherakian1
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A36 DASATINIB INCREASES ENDOTHELIAL PERMEABILITY LEADING TO PLEURAL EFFUSION
Carole Phan*,1, Etienne-Marie Jutant1, Ly Tu1, Raphael Thulliet1, Andrei Seferian1, David Montani2, Alice Huertas1, Jan Van Bezuij1, Fabian Breijer1, Anton Van Noordegraaf1, Marc Humbert1, Jurian Aman1, Christophe Guignabert1
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A37 SHOULD WE CONSIDER PIRFENIDONE IN THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION?
Paul-Benoît Poble*, Ghigna Maria Rosa, Phan Carole, Tu Ly, Bordenave Jennifer, Cumont Amélie, Thulliet Raphael, Huertas Alice, Humbert Marc, Dorfmüller Peter, Guignabert Christophe
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A38 LUNG CANCER-ASSOCIATED PULMONARY HYPERTENSION: ROLE OF MICROENVIRONMENTAL INFLAMMATION BASED ON TUMOR CELL-IMMUNE CELL CROSS-TALK
Soni Pullamsetti*,1, Rajkumar Savai1, Baktybek Kojonazarov2, Samantha Storn1, Henning Gall1, Yia Salazar1, Janine Wolf1, Andreas Weigert1, Nefertiti El-Nikhely1, Ardeschir Ghofrani1, Gabriele Kronbach1, Ludger Fink1, Stefan Gattenlöhner1, Ulf Rapp1, Ralph Schermuly1, Friedrich Grimminger1, Werner Seeeger1
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A39 MITOMYCIN C INDUCES PULMONARY HYPERTENSION AND PATHOLOGIC SIGNS OF PULMONARY VASCULAR OCCLUSIVE DISEASE IN RABBITS
Rozenn Quarc*,1, Allard Wagenaa2, Birger Tiewelmann3, Aurélie Hautefort1, Catharina Belge1, Fabrice Antigny1, David Montani3, Marion Delcroix1, Frédéric Perros1
1KI Leuven and University Hospitals Leuven – Leuven – Belgium, 2KI Leuven – Leuven – Belgium, 3INSERM and University Paris-Sud – Le Plessis Robinson – France

A40 TRICHLOROETHYLENE-INDUCED PERMEABILITY OF THE PULMONARY VASCULAR ENDOTHELIUM: A ROLE IN THE DEVELOPMENT OF PULMONARY VENO-OCLUSIVE DISEASE?
Marianne Rou*,2, Morad Nakhlé2, Florence Lecerf2, Marc Humbert1, David Montani1, Frédéric Perros1
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A41 BLOCKADE OF ENDOTHELIN RECEPTOR TYPE B PROMOTE APOPTOSIS IN HUMAN PULMONARY ARTERIAL SMOOTH MUSCLE CELLS
Satoshi Sakai*, Hidekazu Maruyama, Taizo Kimura, Junya Honda, Kazuya Otsu, Satoshi Homma, Takashi Miyachi, Kazutaka Aonuma
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A42 SHEAR-MEDIATED ERYTHROCYTE NITRIC OXIDE PRODUCTION IS DIFFERENTIALLY REGULATED IN PATIENTS WITH SICKLE CELL DISEASE
Jacqueline Szmuszkovicz1, Silvie Suriany, Derek Ponce, Jon Detterich
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A43 THE SIX-TRANSMEMBRANE PROTEIN STAMP2 PROTECTS FROM PULMONARY ARTERIAL HYPERTENSION VIA ACTIONS IN MONONUCLEAR CELLS
Henrik Ten Freyhaus*, Mahreen Batool, Eva Berghausen, Marius Vantler, Stephan Rosenkrantz
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A44 PHENOTYPING OF PULMONARY ARTERIAL ENDOTHELIAL CELLS ISOLATED FROM PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION AT DIAGNOSIS
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A45 BMPRII DRIVEN RESPONSE OF ENDOTHELIAL INTEGRITY AND ANGIogenesis IN HUMAN LUNG MICROVASCULAR ENDOTHELIAL CELLS
Birger Tielemanst1, Rik Gijsbers3, Annelies Michiels1, Allard Wagenaar1, Richard Farré Marti1, Catharina Belge2, Marion Delcroix2, Rozenn Quarc2
1/2/3/6KU Leuven – Leuven – Belgium, 1/2/3/6Leuven – Leuven – Belgium

A46 CONTRIBUTION OF BMP9 TO PULMONARY ARTERIAL HYPERTENSION: ROLE OF ENDOTHELIN-1
Ly Tu1, Ayumi Sekine2, Christine Mallet3, Jennifer Bordenave3, Agnès Castan4, Raphael Thai5, Carole Phan5, Paul-Benoit Poblet5, Jean-Jacques Feige5, Alice Huertas3, Joao Pinder5, Stephanie Demolli2, Rozenn Quarc2
1/2/3/4/7Inserm U1036 – Grenoble – France, 2Inserm UMR_S 1036 – Grenoble – France, 3Inserm UMR_S 999 – Paris – France

A47 LONG NONCODING RNA TYKRIL PLAYS A ROLE IN PULMONARY HYPERTENSION BY CONTROLLING THE P53 MEDIATED REGULATION OF PDGFRB
Chanh Valasarajan1, Christoph Zehender2, Serge Thal2, Astrid Werner2, Jes-Niels Boeckel2, Florian Bischoff2, David John2, Tyler Weirick2, Simone Glaser2, Oliver Rossbach4, Nicolas Jaë4, Shemsi Demoll2, Regina Hummel5, Karl-Friedrich Keinert5, Christian Möllmann5, Katharina Michalik5, Wei Chen5, Werner Seeger5, Shizuka Uchida2, Andreas Zeiher5, Stefanie Dimmeler5, Soni Pullamsetti5
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A48 SEX HORMONE PROFILES PREDICT THE RISK AND SEVERITY OF DISEASE IN POST-MENOPAUSAL WOMEN WITH PULMONARY ARTERIAL HYPERTENSION

A49 PLATELET FUNCTION ABNORMALITIES IN PULMONARY HYPERTENSION
Eleni Vrigkou*, Iraklis Tsangaris, Argyrios Tsantes, Dimitrios Konstantinou, Athanasios Pappas, Frantzeska Frantzeskaki, Michalis Rizos, Stylianos Orfanos, Apostolos Armaganidis
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A50 RECEPTOR TYROSINE KINASE SIGNALING DRIVING “PSEUDO-MALIGNANT” LUNG VASCULAR REMODELING - THERAPEUTIC EXPLOITATION
Naga Dinesh Reddy Yerabolu*
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A51 THE UNITED STATES PULMONARY HYPERTENSION SCIENTIFIC REGISTRY (USPHSR): DESIGN AND INITIAL BASELINE CHARACTERISTICS
David Badesch*[1], Adama Frost*[1], Eric Austin*[1], Jessica Badlam*[1], Ray Benza*[1], Wendy K. Chung*[1], Harrison Farber*[1], Kathy Feldkircher*[1], Bill Nichols*[1], Abby Poms*[1], Chang YP*[1], C Greg Elliott*[1]

A52 DISCOVERY OF VASCULAR CELL-SPECIFIC EPIGENOMIC SIGNATURES, NOVEL TRANSCRIPTION FACTORS AND SIGNALING NETWORKS IN HUMAN PULMONARY ARTERIAL HYPERTENSION
Prakash Chelladurai*[1], Carsten Künne*[1], Christine Weber*[2], René Reiner Nötzold*[1], Mario Schmoranzer*[1], Mario Looso*[1], Uta-Maria Bauer*[2], Werner Seeger*[1], Soni Savai Pullamsetti*[1]

A53 PREVALENCE AND CLINICAL FEATURES OF BONE MORPHOGENETIC PROTEIN RECEPTOR TYPE 2 MUTATION IN KOREAN IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION PATIENTS
Wook-Jin Chung*[1], Jun Soo Lee*[1], Seungbum Choi*[1], Seyeon Oh*[1], Hanul Choi*[1], Kyung-Hee Kim*[1], Kuk Hui Son*[1], Hae Ok Jung*[1], Jeongwon Ryu*[1], Kyunghee Byun*[1]
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A54 FIRST IDENTIFICATION OF KRÜPPEL-LIKE FACTOR 2 MUTATION IN HERITABLE PULMONARY ARTERIAL HYPERTENSION
Christina Eichstaedt*[1], Jie Song*[1], Rebecca Rodriguez Viales*[2], Zixuan Pan*[1], Nicola Benjamin*[1], Christine Fischer*[1], Marius Hoepner*[1], Silvia Ulrich*[1], Katrin Hinderhofer*[1], Ekkehard Grüning*[1]

A55 COMMON GENETIC BASIS FOR PULMONARY ARTERIAL HYPERTENSION AND HIGH ALTITUDE PULMONARY EDEMA
Christina Eichstaedt*[1], Heimo Mairbäurl*[2], Jie Song*[1], Nicola Benjamin*[1], Christine Fischer*[1], Katrin Hinderhofer*[1], Ekkehard Grüning*[1]
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A56 CLINICAL MANIFESTATION OF HEREDITARY PULMONARY ARTERIAL HYPERTENSION BY A “SECOND HIT” MUTATION IN THE GENES BMPR2 AND EIF2AK4
Christina Eichstaedt*[1], Jie Song*[1], Rebecca Rodriguez Viales*[2], Nicola Benjamin*[1], Satenik Harutyunova*[1], Christine Fischer*[1], Katrin Hinderhofer*[1], Ekkehard Grüning*[1]
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A57 LANDSCAPE OF MUTATIONS FOUND BY GENE PANEL ROUTINE SEQUENCING FOR PULMONARY HYPERTENSION
Mélanie Eyries*1, Anne Leroy1, Barbara Girerd2, David Montani2, Marilyne Levy1, Damien Bonnet1, Arnaud Bourdin1, Romain Tresorier1, Ari Chauvue1, Vincent Cotterm, Céline Sanfrenlo9, Grégoire Prevot1, Martine Reynaud-Gautier1, Claire Dromer1, Ali Houejieh1, Marc Humbert1, Florent Soubrier1

A58 NOVEL CAUSATIVE GENES FOR HERITABLE PULMONARY ARTERIAL HYPERTENSION
Stefan Graf1, Matthias Haimel2, Marta Bleda3, Charaka Hadinnapola4, Wei Li5, Joshua Hodgson5, Bin Liu5, Richard M Salmon5, Mark Southwood6, Laura Southgate7, Rajiv D Machado8, Jennifer M Martin9, Carmen M Treacy10, Jennifer Yates11, Louise C Daugherty1, Olga Shamardina1, Deborah Whitehorn11, Simon Holder10, Micheala A. Aldred12, Harm J Bogaard1, Colin Church1, Gerry Coghlan1, Robin Condliffe1, Paul A Corris13, Cesare Danesino13, Mélanie Eyries14, Henning Galf13, Stefano Ghio13, Hossein-Ardeschir Ghofoiri1, J Simon R Gibbs16, Barbara Girerd21, Arjan C Houweling22, Luke Howard16, Marc Humbert21, David G Kiely11, Gabor Kovacs21, Robert V Mackenzie Ross7, Shahin Moledina2, David Montani21, Michael Newham1, Andrea Olischewski21, Horst Olschewski21, Andrew J Peacock21, Joanna Pepke-Zaba21, Inga Prokopenko1, Christopher J Rhodes13, Laura Scelsi19, Werner Seeger18, Florent Soubrier14, Jay Suntharalingam17, Emilia Swietlik1, Mark R Toshner1, Anton Vonk Noordegraaf18, Quintin Waisfisz1, John Wharton10, Stephen J Wort10, Nicole Soranzo1, Willem H Ouweland11, Allan Lawrence11, Paul D Upton1, Richard C Trembath10, Martin R Wilkins10, Nicholas W Morell11
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A59  A SENSITIVE RESPONSE TO HYPOXIA IN PULMONARY ARTERY IN HIGH-ALTITUDE PULMONARY EDEMA SUSCEPTIBLE SUBJECTS UNDER A GENETIC BACKGROUND OF VARIATIONS IN THE EGLN1 GENE

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*[1], Aurélie Hautefort[2], Boris Manoury[2], David Montani[1], Marc Humbert[1], Frédéric Perros[1], Fabrice Antigny[1]

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A63  INHIBITION OF NITRIC OXIDE SYNTHASE UNMASKS POTENT VASOCONSTRICTION IN ESTABLISHED PULMONARY ARTERIAL HYPERTENSION

Kohtaro Abe*, Maniko Tanaka, Hiroyuki Tsutsui
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A64  DIMINISHED RIGHT VENTRICULAR FUNCTION AT DIAGNOSIS OF PULMONARY HYPERTENSION IS ASSOCIATED WITH MORTALITY IN BRONCHOPULMONARY DYSPLASIA

Gabriel Altit*, Shazia Bhombal, Jeffrey Feinstein, Theresa Tacy
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A61  ENHANCED EXPRESSION OF ENDOTHELIN-2, AN ISOPEPTIDE OF ENDOTHELIN-1, BY HYPOXIA IN LUNGS: POSSIBLE ROLE IN PULMONARY HYPERTENSION

Yoko Suzuki*[1], Ikeda Koji[2], Miyagawa Kazuya[2], Tamada Naoko[2], Nakayama Kanzuchi[2], Yanagisawa Masash[2], Emoto Noriaki[2]
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A62  THE EFFECTS OF BONE MORPHOGENETIC PROTEIN RECEPTOR TYPE 2 MUTATION ON RIGHT VENTRICULAR FUNCTION IN PULMONARY ARTERIAL HYPERTENSION AFTER OPTIMAL COMBINATION THERAPY

Hiraide Takahiro*[1], Murata Mitsuhi[2], Kataoka Masaharu[2], Aimu Yuki[2], Isobe Sara[3], Kawakami Takashi[3], Moriya Hidenori[3], Endo Jin[3], Itabashi Yuji[3], Gomou Shinobu[2], Fukuda Keiich[3]
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A65  THE OMEGA-3 EPA: DHA 6:1 FORMULATION PREVENTS THE MONOCROTALINE-INDUCED PULMONARY HYPERTENSION, PULMONARY ARTERY REMODELING AND ENDOTHELIAL DYSFUNCTION, AND RIGHT VENTRICULAR FAILURE IN RATS

Said Amissi*, Zahid Rasul Niazi[1], Mélanie Burban[1], Romain Kessler[2], Mathieu Canuet[3], Florence Tot[4], Laurent Monassier[5], Cyril Auger[5], Ferhat Meziani[2], Valérie Schini-Kerth[1]
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A66 ALTERATION OF KCNK3 FUNCTION CONTRIBUTES TO RIGHT VENTRICULAR DYSFUNCTIONS IN EXPERIMENTAL PULMONARY HYPERTENSION
Fabrice Antigny[1], Mélanie Lambert[1], Angèle Boet[1], Catherine Rucker-Martín[1], Véronique Capuano[1], Stéphane Hatenn[2], Aurélie Hautefort[1], Jean-Baptiste Michel[2], Peter Dörflmüller[1], Elie Fadel[1], Tom Kotsimbos[2], Philippe Jouardin[2], David Montani[1], Frédéric Perroli[1], Marc Humbert[1]

A67 IMPAIRED RIGHT VENTRICULAR O2 DELIVERY IS ASSOCIATED WITH REDUCED RIGHT VENTRICULAR RESERVE IN PULMONARY HYPERTENSION DURING EXERCISE
Zongye Cai*, Richard Wb Van Duin, Dirk Jan Duncker, Daphne Merkus
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A68 PULMONARY ARTERIAL VOLUME, A DETERMINANT OF RESERVOIR FUNCTION MAY MODULATE RIGHT VENTRICULAR PERFORMANCE IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Hao-Chih Chang*, Lu Dai-Yin, Sung Shih-Hsien
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A69 ALTERED MYOCARDIAL ENERGY METABOLISM IN EXPERIMENTAL RIGHT VENTRICULAR FAILURE ON ACUTE AND CHRONIC INCREASED AFTERLOAD
Laurence Dewachter[1], Asmae Belha[2], Benoit Rondelet[2], Francois Kerbaull[1], Serge Brimioulle[1], Robert Naeije[1], Céline Dewachter[1]

A70 CORRELATION BETWEEN RIGHT VENTRICULAR FUNCTION ASSESSED BY ECHOCARDIOGRAPHY AND BY RIGHT HEART CATHETERIZATION AMONG PATIENTS WITH PULMONARY HYPERTENSION
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A71 PULMONARY VASCULAR RESISTANCE AND COMPLIANCE RELATIONSHIP IN PULMONARY HYPERTENSION: DIRECT MEASUREMENTS VERSUS EMPIRIC FORMULAE
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A72 MIR-21 REGULATED RIGHT VENTRICULAR REMODELING SECONDARY TO PULMONARY ARTERIAL PRESSURE OVERLOAD
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A73 ACTIVATED CONVENTIONAL DENDRITIC CELLS AS DRIVERS IN THE PATHOPHYSIOLOGY OF IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION (IPAH)?
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A74 EXERCISE HEMODYNAMIC PREDICTORS OF PEAK OXYGEN CONSUMPTION IN IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION
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A75 POTENTIAL ROLE OF THE ARYL HYDROCARBON RECEPTOR IN PAH
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A76 OSTEOPONTIN IN RIGHT VENTRICULAR REMODELING
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A77 THE STIFFNESS OF THE PULMONARY ARTERY AS A MARKER OF RIGHT VENTRICULAR FUNCTION IN PATIENTS WITH PULMONARY HYPERTENSION
Olga Moiseeva*, Maria Simakova, Anton Rygkov, Aigun Kyzymly
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A78 THE CLINICAL VALUE OF ASSESSING RIGHT VENTRICULAR DIASTOLIC FUNCTION AFTER BALLOON PULMONARY ANGIOPLASTY IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
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A79 HIGH-SENSITIVE CARDIAC TROPONIN T LEVEL IS A SURROGATE MARKER FOR RV FUNCTIONAL RECOVERY AFTER SUCCESSFUL BALLOON PULMONARY ANGIOPLASTY IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
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A80 WNT-SIGNALING PATHWAY DRIVES RIGHT VENTRICULAR REMODELING
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A81 THE RELATIONSHIP BETWEEN PULMONARY BLOOD FLOW AND PULMONARY MICROVASCULAR RECRUITMENT IN SUPINE EXERCISING HUMANS
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A82 REGIONAL INHOMOGENEITY OF RIGHT VENTRICULAR CONTRACTION DURING HYPOXIC BREATHING BUT NOT DURING EXERCISE IN HEALTHY SUBJECTS
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A83 QUANTIFICATION AND VISUALIZATION OF PULMONARY VASCULAR RESPONSE TO NITRIC OXIDE USING COMPUTED TOMOGRAPHY
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A84 ABNORMAL RESPONSE TO EXERCISE IN SYSTEMIC SCLEROSIS PATIENTS WITH NORMAL PULMONARY PRESSURES AT REST: A CASE-CONTROLLED STUDY
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A85  ADAMTS8 PROMOTES THE DEVELOPMENT OF PULMONARY ARTERIAL HYPERTENSION AND RIGHT VENTRICULAR FAILURE - A POSSIBLE NOVEL THERAPEUTIC TARGET -
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A86  RIGHT VENTRICULAR CHARACTERISTICS IN EISENMENGER SYNDROME – ECG AND ECHO CORRELATIONS
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A87  TRANSITION FROM POST- TO COMBINED PRE/POST-CAPILLARY PULMONARY HYPERTENSION: KEY ROLE OF ENDOTHELIN
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A88  PULMONARY HYPERTENSION IN TAKAYASU ARTERITIS
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A89  A COMPARISON OF NT-PROBNP LEVELS IN PATIENTS WITH SSC-ASSOCIATED PAH AND PATIENTS WITH SSC-RELATED PH ASSOCIATED WITH LUNG DISEASE
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A90  RESULTS OF MEDIUM SEVEN YEARS’ FOLLOW-UP IN SYSTEMIC SCLEROSIS PATIENTS WITH EXERCISE INDUCED PULMONARY HYPERTENSION MEASURED DURING RIGHT HEART CATHETERIZATION
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A91  JOGJAKARTA CONGENITAL HEART DISEASE AND PULMONARY HYPERTENSION (COHARD-PH) STUDY: RESULTS FROM A SINGLE-CENTER NATIONAL REFERRAL HOSPITAL REGISTRY IN INDONESIA
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A92 THE MORTALITY OF PREGNANT PATIENTS WITH UNCORRECTED ATRIAL SEPTAL DEFECT IS INFLUENCED BY SEVERE PULMONARY HYPERTENSION – A SUBSTUDY OF JOGJAKARTA COHARD-PH REGISTRY
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A93 PULMONARY HYPERTENSION IN ASIA: INSIGHTS FROM AN ASIAN TERTIARY REFERRAL CENTRE
Teng Yik Hoo*, Benjamin Chew1, Jonathan Yap1, Wen Ruati1, Jeremy Teoh1, Maggie Wong1, Sewa Du Wei2, Ghee Chee Phua3, Andrea Low2, Ju Le Tan2, Soo Tek Lim3
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A94 THE DISPROPORTIONAL INCREASE OF PULMONARY PRESSURE IS RELATED TO THE CLINICAL OUTCOMES IN PATIENTS WITH CHRONIC HEART FAILURE
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A95 THE DETERMINANTS OF “OUT OF PROPORTION” PULMONARY HYPERTENSION IN PATIENTS WITH MILD CHRONIC OBSTRUCTION PULMONARY DISEASE
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A96 IMPACT OF BLOOD VISCOSITY ON PULMONARY VASCULAR RESISTANCE IN PATIENTS ASSESSED FOR PULMONARY HYPERTENSION AT A LARGE TERTIARY CENTRE
Aleksander Kempny*, Konstantinos Dimopoulos, Colm Mccabe, Rafael Alonso-Gonzalez, Laura Price, Michael Gatzoulis, Stephen J Wort
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A97 GENDER ASPECTS AMONG PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION IN THE MODERN TREATMENT ERA
Barbro Kjellström*, Clara Hjalmarsson2, David Kyllhammer3, Sven-Erik Bartfay4, Göran Rådegran5, Magnus Nisell3

A98 CHARACTERISTICS OF PULMONARY ARTERIAL HYPERTENSION IN PATIENTS WITH SYSTEMIC SCLEROSIS AND ANTICENTRIOLE AUTOANTIBODIES
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A99 PH EXPERIENCE IN A TERTIARY CENTER
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A100 PULMONARY HYPERTENSION IN GREECE: PRELIMINARY DATA FROM A NATIONAL REGISTRY
Athanasios Manginas*, Maria Toupourlekal, George Giannakouls1, Sofia-Anastasia Mouratoglou2, Haralambos Karvounis3, Efthia Demerouti2, Panagiotis Kariolfili2, Georgios Anthoulakopoulos2, Spyridon Rammos2, Iraklis Tsangaris2, Elef Stagaki2, Stylianos Orfanos2, Georgia Pitsioul2, Evangelia Panagotidou2, Ioanna Mitrousk2, Ekaterini Avgiropolou2, Katerina Nak2, Stavros Konstandinides2, Anastasia Anth5
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A101 PREVALENCE AND CORRELATES OF OBESITY IN PRECAPILLARY PULMONARY HYPERTENSION
Athanasios Manginas1, Maria Troupourleka1, George Giannakoulas1, Sofia-Antastasia Mouratoglou2, Haralamboz Karvounis1, Efthia Demouritis1, Panagiota Karfioili2, Georgios Athanasopoulo2, Spyridon Rammou3, Iakalis Tsangaris2, Eleini Stagaki2, Stylianos Orfanos3, Georgina Pitsiou4, Evangelia Panagiotidou5, Ioanna Mitrouska5, Ekaterini Avgieropoulou6, Katerina Naka6, Stavros Konstandinides6, Anastasia Anthi6

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A102 ECHOCARDIOGRAPHIC ASSESSMENT OF RIGHT VENTRICULAR COUPLING TO PULMONARY CIRCULATION IS ASSOCIATED WITH HEMODYNAMIC DISEASE SEVERITY IN PRECAPILLARY PULMONARY HYPERTENSION
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A103 THE BLOOD COUNT LEVELS, THE MEAN PULMONARY ARTERY PRESSURE AND SIX MINUTE WALK TEST AMONG ADULT FILIPINOS WITH PULMONARY HYPERTENSION ASSOCIATED WITH CONGENITAL HEART DISEASES: RESULTS FROM THE PHILIPPINE HEART CENTER – CENTER FOR PULMONARY VASCULAR DISORD
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A104 COMPARISON OF CARDIAC OUTPUT DETERMINATION BY THE INDIRECT FICK AND THE THERMODILUTION METHOD IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Sophia Anastasia Mouratoglou*, Ioannis Doundoulakis, Filipoukis Cristos, Baxmpani Maria Anna, Arvanitaki Alexandra, Tournpourleka Maria, Grosomanidias Vasileios, Hadjimiltades Stavros, Karvounis Haralambo, Giannakoulas George
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A105 PULMONARY ARTERIAL HYPERTENSION IN IGG4-RELATED DISEASE: ALL ABOUT THE EPOPROSTENOL?
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A106 PULMONARY ARTERY DILATATION PROGRESS IN PATIENTS WITH PULMONARY HYPERTENSION COEXISTING PULMONARY ARTERY ANEURYSM - POSSIBLE INVOLVEMENT OF PROSTAGLANDIN E RECEPTOR TYPE 4 OVEREXPRESSION-Akagi Satoshi1, Nakamura Kazufumi1, Yokoyama Utako2, Kasahara Shingo2, Sarashina Toishiro1, Eiji Kento2, Ito Hiroshi2

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A107 DIFFERENTIAL INCREASE IN CIRCULATING PAN VEGF-A AND VEGF-A165B LEVELS AMONG SUBTYPE OF PULMONARY HYPERTENSION
Shigetake Shimokata1,2, Kikuchi Ryosuke2, Adachi Shiro3, Okumura Naoki4, Okumura4, Tajima Fumitaka1, Kamimura Yoshihiro1, Nakano Yoshihisa3, Kondo Takahisa2, Murohara Toyoaki1
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A108 SEVERE PULMONARY ARTERIAL HYPERTENSION IN PATIENTS TREATED BY CHINESE HERB NATURE INDIGO: QING-DAI
Yuichi Tamura1, Asuka Furukawa1, Ly Tu2, Christophe Guignabert2, Marc Humbert2, Noriaki Emoto3, Hiroshi Watanabe2, Koichiro Tatsumi5
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A109 CLINICAL CHARACTERISTICS AND SURVIVAL OF ASIAN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Jonathan Yap2, Teng Yik Hoo2, Jeremy Teoh2, Benjamin Chew2, Duu Wen Sewa1, Ghee Chee Phua1, Andrea Low1, Choong Hee Lim1, Ju Le Tan2, Maggie Wong2, Wen Ruai2
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A110 THE STRUCTURAL-FUNCTIONAL STATE OF THE SYSTEMIC CIRCULATION ARTERIES IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
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A111 DEATH OR RESOLUTION: THE NATURAL HISTORY OF PULMONARY HYPERTENSION IN BRONCHOPULMONARY DYSPLASIA
Gabriel Altit*, Shazia Bhombal, Theresa Tacy, Jeffrey Feinstein
Stanford University – Palo Alto – United States of America

A112 RECEPTOR TYROSINE KINASES AND RELATED LIGANDS PROVIDE NEW PLASMA BIOMARKERS IN PULMONARY ARTERIAL HYPERTENSION
Habib Bouzina*
Lunds University - Lund - Sweden

A113 NONSYNDROMIC PERIPHERAL PULMONARY ARTERY STENOSIS IS ASSOCIATED WITH HOMOZYGOSITY OF RNF213 PARG4810LYS REGARDLESS OF CO-OCCURRENCE OF MOYAMOYA DISEASE
Sung-A Chang*, Ju Sun Song, Taek Kyu Park, Jung Hoon Yang, Woo Chan Kwon, So Ree Kim, Sung Mok Kim, Jihoon Cha, Shin Yi Jing, Young Seok Cho, Tae Jung Kim, Oh Young Bang, Jinn Young Song, Chang Seok Ki, Duk-Kyung Kim
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A114 CLINICAL PROFILING AND PREDICTING CLINICAL DETERIORATION IN IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION PATIENTS IN A PULMONARY HYPERTENSION REFERENCE CENTER IN CAMPINAS-BRAZIL
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A109 CLINICAL CHARACTERISTICS AND SURVIVAL OF ASIAN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION
Jonathan Yap*, Teng Yik Hoo, Jeremy Teoh, Benjamin Chew, Duu Wen Sewa, Ghee Chee Phua, Andrea Low, Choong Hee Lim, Ju Le Tan, Maggie Wong, Wen Ruai
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**A115 INCIDENCE OF PULMONARY HYPERTENSION AND DETERMINING FACTORS IN PATIENTS WITH SYSTEMIC SCLEROSIS AFTER NEGATIVE RIGHT HEART CATHETERISATION**

Satenik Harutyunova*, Gerry Coghlan†, Matthias Wolf‡, Oliver Distler‡, Christopher P Denton‡, Martin Doelberg‡, Alberto Marra‡, Nicola Benjamini‡, Christine Fischer‡, Ekkehard Grünig‡

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**A116 PULMONARY HYPERTENSION IN ASIA: ESTIMATED PREVALENCE AND PROGNOSIS FROM THE ECHOCARDIOGRAPHY COHORT**

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**A117 PREVALENCE OF PULMONARY HYPERTENSION IN PATIENTS WITH SARCOIDOSIS: A SINGLE CENTER EXPERIENCE**

Deniz Kaptan Ozen*, Bulent Mutlu*, Alper Kepez*, Derya Kocakaya†, Berrin Ceyhan‡, Batur Gonenc Kanaan‡, Okan Ergodan‡, Halil Atas‡

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**A118 EFFICIENT DETECTION OF PULMONARY ARTERIAL HYPERTENSION USING SERUM HAPTOGLOBIN LEVEL AND CARDIAC MRI IN PATIENTS WITH CONNECTIVE TISSUE DISEASES**

Masaru Kato*, Hiroyuki Nakamura*, Eri Sugawara*, Yuichiro Fujieda†, Kenji Oku†, Toshiyuki Bohgaki‡, Shin'uku Yasuda‡, Hiroshi Ohira‡, Ichizo Tsuji‡, Masaharu Nishimura‡, Tatsuya Atsumi‡

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**A119 NAILFOLD VIDEOCAPILLAROSCOPY PARAMETERS AS A PREDICTORS OF PULMONARY ARTERIAL HYPERTENSION DEVELOPMENT IN PATIENTS WITH SYSTEMIC SCLEROSIS**

Nataliya Klyaus*, Maria Simakova, Kirill Malikov, Alexey Maslyanskiy, Olga Moiseeva

Federal State Budgetary Institution “V.A. Almazov National Medical Research Center” of the Ministry of Health of the Russian Federation – Saint-Petersburg – Russian Federation

**A120 ACCURACY AND PRECISION OF MEAN PULMONARY PRESSURE ASSESSED BY ECHOCARDIOGRAPHY AMONG PATIENTS WITH PULMONARY HYPERTENSION**

Adrián Lescano*, Juan Farina, Hector Gomez Santa Maria, Augusto Lavalle Cobro, Guadalupe Romero, Nicolas Gonzalez, Miguel Gonzalez, Victor Daru, Hugo Granelli

Finocchietto Clinic – Buenos Aires – Argentina

**A121 RAISING PAH AWARENESS IN SERBIA**

Senka Milutinović*, Ilija Andrijevic, Jovan Matijasevic, Ana Andrijevic

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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 ALTERATIONS AND NATRIURETIC PEPTIDE LEVELS IN PATIENTS WITH SYSTEMIC SARCOIDOSIS**

Bulent Mutlu†*, Deniz Kaptan Ozen†, Alper Kepez†, Derya Kocakaya†, Berrin Ceyhan‡, Okan Ergodan‡, Batur Gonenc Kanaan‡, Halil Atas‡

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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 Girerd[1], Frederic Ferro[1], David Montani[1], Raneen Jeries[3], Peter Dorfmüller[2], Elie Fadel[1], Christophe Guignabert[1], Marc Humbert[1], Hossam Haick[2], Sylvia Cohen-Kaminsky[1]

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A125 CONGENITAL HEART DISEASES: A RARE REASON FOR PULMONARY HYPERTENSION IN ADULT PATIENTS
Gulfer Okumus*[1], Celik Sumer[1], Zuleyha Bingöl[1], Gökçen Orhan[2], Murat Inanc[3], Ahmet Kaya Bilge[4]

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[3] Istanbul University Medical Faculty Department of Rheumatology – Istanbul – Turkey.
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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 Celermajer[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 Ozpelit, Dilek Sezgin, Bihter Sentürk, Can Sevinç, Resit Yigit Yilancioglu, Nezih Baris
No ~ Izmir ~ Turkey

B11 HOW EFFICACIOUS IS THE GUIDELINE BASED RISK STRATIFICATION IN WHOLE PAH POPULATION IN ROUTINE PRACTICE?
Bahri Akdeniz*, Ebru Ozpelit, Dilek Sezgin, Can Sevinç, Nezih Baris, Bihter Sentürk
No ~ Izmir ~ Turkey

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 Sevinç
Dokuz Eylul University ~ Izmir ~ 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, Nazzareno Galík
University of Bologna, Department of Specialized Diagnostic and Experimental Medicine ~ DIMES - Bologna/IT ~ Bologna ~ Italy

B14 TRANSITION FROM SUBCUTANEOUS TREPROMSTIL TO INTRAVENOUS THERMOSTABLE EPOPROSTENOL IN PATIENTS WITH SEVERE PULMONARY ARTERIAL HYPERTENSION
Anastasia Anthi*, Konstantina Ntaï, Dimitrios Konstantonis, Frantzeska Frantzeskaki, Elieni Stagaki, Cornelia Mitrakou, Athanasios Pappas, Michalis Rizos, Olympiada Apostolopoulou, Apostolos Armaganidis, Stylianos Orfanos
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B15 INITIAL TREATMENT STRATEGY AND LONG-TERM SURVIVAL IN PULMONARY ARTERIAL HYPERTENSION (PAH)
Athénais Boucly*, Jason Weatherald, Laurent Savale, David Montani, Xavier Jalil, Mitja Jevnikar, Gérald Simonneau, Marc Humbert, Olivier Sitbon

B16 LONG-TERM OUTCOMES AND PREDICTORS OF SURVIVAL IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION WITHOUT ACCESS TO PARENTERAL PROSTANOID THERAPY
Elena Dimitrova*, Arman Postadzhiyan, Bozhidar Finkov, Blagorodna Karatancheva, Emilia Naseva, Vasil Yelchev

B17 IMPROVEMENT OF PULMONARY DIFFUSION CAPACITY AFTER INTRAVENOUS IRON SUBSTITUTION IN PATIENTS WITH IRON DEFICIENCY AND PULMONARY HYPERTENSION
Daniel Dumitrescu*, Tilman Kramer, Henrik Hagmanns, Felix Gerhardt, Thomas Vietken, Stephan Baldus, Stephan Rosenkranz
Herzzentrum der Universität zu Köln ~ 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, Alexandros Frogoudaki, Christos Ntellos, Afroditi Tzifa, Stylianos Brili, Athanasios Manginas, Despina Ntouli, Marios Kolios, Antonios Pitsis, Haralampos Karvounis, Konstantinos Tsoufas, Spyridon Rammou

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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
Wendy Gin-Sing*, Simon Gibbs†, Luke Howard†, Rachel Davies†, George Villa†, Margaret Lau-Walker†, Geraldine Lee†
†Hammersmith Hospital – London – United Kingdom, †King’s College – London – United Kingdom

B22  SAFETY OF SWITCHING TO ROCIGUAT FOR THE TREATMENT OF PULMONARY HYPERTENSION: DATA FROM THE EXPERT REGISTRY
Ekkehard Grünig†, Henning Gall‡, Hossein-Ardeschir Ghofranı‡, Marc Humbert§, Gérard Simonneau§, Hans Klose§, Michael Halank§, David Langleben§, Repke Snijder§, Pilar Escrivena§, Lisa Mielniczuk§, Tobias Lange§, Jean-Luc Vachiery§, Hubert Wirtz§, Douglas Helmsen§, Irlaikis Tsangaris‡, Joan Albert Barbera‡, Joana Pepke-Zaba‡, Anco Boonstra‡, Stephan Rosenkranz‡, Sylvia Ulrich‡, Regina Mascherbauer‡, Marion Delcroix*, Pavel Jansa*, Miguel Angel Gómez Sánchez*, Jens Klotzsche*, Christian Meier*, David Pittrow*, Marius M Hoeper*
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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 Anggrahini, Lucia Kris Dinarti
Department of Cardiology and Vascular Medicine Universitas Gadjah Mada/Sardjito General Hospital – Yogyakarta – Indonesia

B24 INITIAL COMBINATION THERAPY WITH RIOCIGUAT 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*[1], Göran Rådegran*[1], David Kylhammar*[1], Bengt Rundqvist*[2], Jonas Multhing*[3], Magnus Nisell*[1], Barbro Kjellström*[4]

B26 EFFICACY AND SAFETY OF EARLY SEQUENTIAL COMBINATION THERAPY WITH RIOCIGUAT AND ENDOTHELIN RECEPTOR ANTAGONISTS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION: RESULTS FROM PATENT-1 AND PATENT-2
Marc Humbert*[1], Ekkehard Grüning*[2], Pavel Jansal*[1], Gérald Simonneau*[1], Franck Rahagh*[1], Stephan Rosenkrantz*[1], Dennis Busse*[2], Christian Meier*[1], Janethe De Oliveira Pena*[1], Hossein-Ardeschir Ghofrani*[1]

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 Kopec
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, Tomaoki 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, Christoph Hohmann, Stephan Baldus, Stephan Rosenkranz
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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*[2], 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*, Chan Hong Jeon[1], Han Ki Park[2]
[1]Soonchunhyang University Hospital – Bucheon – Korea, Republic of; [2]Chonnam National University Bitchoeul Hospital – Gwangju-Gwangyoeoki – Korea, Republic of

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 Leccano[1], Nicolas Atamañuk[2], Vanesa Gregorietti[3], Nicolas Caruso[4], Daniela Garcia Brascag[5], Maria Lorena Coronel[6], Juan Farina[7], Sergio Bortman[8]

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[3], Rolin Wade[2], Yuen Tsang[2], William Drake[2]

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
University of Bologna, Department of Specialized, Diagnostic and Experimental Medicine – DIMES - Bologna/IT – Bologna – Italy

B40 PROGNOSTIC VALUE OF 12-LEAD ECG IN PATIENTS WITH PRECAPILLARY PULMONARY HYPERTENSION
Thomas Nguyen*, Jean-Luc Vachiery, Rubén Casado-Arroyo
Erasme University Hospital, Department of Cardiology – Brussels – Belgium

B41 ALLERGIC TO ONE DOES NOT MEAN TO ALL
Zeki Ongen*, Burcak Klickiran Avci, Hurrem Gul Ongen
Cerrahpasa Medical Faculty – Istanbul – Turkey

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[1], Afroditi Boutou[2], Ioannis Stanopoulos[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
Janis Pruett[2], Michael Hull[1], Eleena Koepl[1], Yuen Tsang[2], William Drake[2]
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**HEMODYNAMIC AND EXERCISE EFFECTS OF DIFFERENT TYPES OF INITIAL ORAL COMBINATION THERAPY IN PULMONARY ARTERIAL HYPERTENSION**

Andrea Rinaldi*, Massimiliano Palazzini, Enrico Gott, Fabio Dardi, Alessandra Albini, Enrico Monti, Elisa Zußa, Daniele Guarino, Filippo Pasca, Nikita Tanese, Mariangela Rotunno, Antonio Colangelo, Alessandra Manes, Nazzareno Galiè

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**B54**

**INITIAL CLINICAL RESULTS WITH MACITENTAN IN CONGENITAL HEART DISEASE PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION**

Joaquín Rueda-Soriano*†, Josep Lluís Melero-Ferrer‡, Carlos Israel Chamorro-Fernández‡, Francisco Buendia-Fuentes‡, Ana Osa-Sáez‡, Luis Martínez-Dolz‡

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**B46**

**SAFETY AND EFFICACY OF SUBCUTANEOUS TREPROSTINIL IN CONGENITAL HEART DISEASE-RELATED PULMONARY ARTERIAL HYPERTENSION**

Nika Skoro-Sajer*†, Christian Gergesi‡, Olga Hajnalka Balint‡, Monika Kaldararova‡, Iveta Simková‡, Johannes Jakowitsch‡, Harald Gabriel‡, Helmut Baumgartner‡, Mario Gergesi‡, Roela Sadushi-Kolici‡, David Celemajer‡, Irene Lang‡

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**B47**

**PARENTERAL USE OF PROSTANOIDS IN PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION (PAH) IN A TERTIARY REFERRAL UNIVERSITY HOSPITAL**


Pulmonary Hypertension Clinic, University of Athens, “Attikon” Hospital – Athens – Greece

**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 Sugiura, Seiichiro Sakao, Koichiro Tatsumi

Department of Respiratory, Graduate School of Medicine, Chiba University – Chiba – Japan

**B49**

**DIVERSITY OF BORDERLINE PULMONARY ARTERIAL PRESSURE ASSOCIATED WITH SYSTEMIC SCLEROSIS: 4 CASE SERIES**

Eri Sugawara*†, Masaru Kato†, Ryo Hisada‡, Hiroyuki Nakamura‡, Fuyueda Yuichiro‡, Kenji Oku‡, Toshikyu Bohgaki‡, Shinshuke Yasuda‡, Hiroshi Ohira‡, Ichizo Tsujino‡, Masaharu Nishimura‡, Tatsuya Atsumi‡

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**B50**

**REAL LIFE EXPERIENCE WITH REVEAL RISK SCORE FOR PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION**

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**B51**

**INFLUENCE OF INITIAL RIOCGUAT MONOTHERAPY AND TRANSITION FROM SILDENAFIL TO RIOCGUAT THERAPY IN PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION ON RIGHT HEART REMODELING AND RIGHT VENTRICULAR – PULMONARY ARTERIAL COUPLING**

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B52 THE VALUE OF CARDIOPULMONARY EXERCISE TESTING IN ASSESSMENT OF THE SEVERITY OF PULMONARY ARTERIAL HYPERTENSION PATIENTS

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B53 ENHANCED GLUCOSE METABOLISM IN THE RIGHT VENTRICULAR 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 Sachiyu, Fukumoto Yoshihiro

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B54 HEMODYNAMIC EFFECTS OF THE ORAL PROSTACYCLIN (IP) RECEPTOR AGONIST RALINEPAG IN PULMONARY ARTERIAL HYPERTENSION (PAH)

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B55 IS REDUCED SYSTEMIC ARTERIAL STIFFNESS A NOVEL SURROGATE INDEX OF SEVERITY IN PATIENTS WITH GROUP 1 PULMONARY ARTERIAL HYPERTENSION?

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B56 THE ROLE OF SYSTEMIC ENDOTHELIAL GLYCOCALYX IN PATIENTS WITH GROUP 1 PULMONARY ARTERIAL HYPERTENSION

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B57 RIGHT ATRIUM ENLARGEMENT PREDICTS CLINICALLY SIGNIFICANT SUPRAVENTRICULAR ARRHYTHMIAS IN PULMONARY ARTERIAL HYPERTENSION.

Marcin Waligóra*, Anna Tyrka, Jakub Stepniewski, Wojciech Magon, Piotr Podolec, Grzegorz Kopeć

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B58 ELECTROCARDIOGRAPHIC CRITERIA OF RIGHT VENTRICULAR HYPERTROPHY REFLECT HEMODYNAMIC IMPROVEMENT IN PULMONARY HYPERTENSION.

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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

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RISK STRATIFICATION AND MEDICAL THERAPY OF PULMONARY ARTERIAL HYPERTENSION

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 Galì
e University of Bologna, Department of Specialized Diagnostic and Experimental Medicine - DIMES - Bologna/IT – Bologna – Italy

RIGHT VENTRICULAR ASSISTANCE AND LUNG TRANSPLANTATION

B61 PERCUTANEOUS ATRIAL SEPTOSTOMY WITH PERIPHERAL STENT IN A PATIENT WITH SYNCOPE AND REFRACTORY PULMONARY ARTERIAL HYPERTENSION AND MILD HYPOXIA

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TRIALS DESIGN AND NEW THERAPIES FOR PULMONARY ARTERIAL HYPERTENSION

B62 POTENCY, SELECTIVITY, AND COMPARATIVE PLATELET AND VASCULAR ACTIVITY OF RALINEPAG ACTING ON IP RECEPTORS IN HUMAN TISSUES

John Adams[3], Brendan Whittle[1], Lei Shen[3], Jigisha Patel[2], Lucie H Clapp[1]

B63 SILDENAFIL ADDED TO PIRFENIDONE IN PATIENTS WITH ADVANCED IDIOPATHIC PULMONARY FIBROSIS (IPF) AND PULMONARY HYPERTENSION (PH): A PHASE IIIB, 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[3], Athol U Wells[6]
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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)
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B67 BASELINE AND DEMOGRAPHIC DATA ON THE FIRST 150 PATIENTS FROM SPHERE (UPTRAVI® [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, Valerien McLaughlin
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B68 ERS TASK FORCE: EXERCISE TRAINING AND REHABILITATION IN PATIENTS WITH SEVERE CHRONIC PULMONARY HYPERTENSION
Ekkehard Grünig*, Christina Eichstaedt, Joan-Albert Barberá, Isabel Blanco, Eduardo Bossone, Antonio Cittadini, Marion Delcroix, Sean Gaine, Stefano Ghio, Lina Gambierle, Frances Handoko De Man, Martin Johnson, David Kiley, Gabor Kovacs, Alison Mackenzie, Robert Naeije, Silvia Ulrich, Horst Olschewski, Abilio Reis, Mário Santos, Anton Vond Novodraja, 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
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B72 IDENTIFICATION OF CELASTRAMYCN AS A NOVEL THERAPEUTIC AGENT FOR PULMONARY ARTERIAL HYPERTENSION
Ryo Kurosawa*, Satoh Kimio, Nobuhiro Kikuchi, Taiyu Satoh, Junichi Omura, Masamichi Nogi, Shinichiro Sunamura, Tomohiro Oshuki, Nobuhiro Yoita, Mohammad Abdul Hai Siddique, Md Elias Al-Mamun, Toru Shimizu, Hiroaki Shimokawa
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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[2], Benjamin Egenlauf[1], Ralf Ewert[3], Hans Lehmkuhl[4], Stephan Rosenkrantz[5], Nicola Benjamin[1], Vedat Schwenger[6], Felix Herth[7], 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[8], Robert Roscigno[8], Toby Vaughn[9], Stephanie Anderson[8], William Wargin[2], Rex Williams[1], Clint Forsythe[8], Thomas Hunt[7], Patrick Normand[7], Manal Hantash[5], John Dillberger[4]

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*, Seyeon Oh[1], Seungbum Cho[2], Kyung-Hee Kim[1], Minsu Kim[1], Hanul Choi[3], Jeonggon Ryu[1], Kyunghee Byun[1], Wook-Jin Chung[2]

B78 THE MOTION STUDY: A RESPONDER ANALYSIS OF RIOCIUGAT
Namita Sood[1], Alvaro Aranda[2], David Platt[3], Larose Anneliese[5], Frank Kleinjung[5], Gerald O’Brien[4]

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**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 Soplopuco, 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 Williams3

1Royal Hospital – Melbourne – Australia, 2Royal Adelaide Hospital – Adelaide – Australia, 3Department of Cardiology, St Vincent’s Hospital – Melbourne – Australia

**B81** CLINICAL PHENOTYPES, VENTILATORY RESPONSES TO EXERCISE AND OUTCOMES OF PULMONARY HYPERTENSION DUE TO LEFT HEART DISEASE: ROLE OF THE PRE-CAPILLARY COMPONENT

Sergio Caravita1, Andrea Faini1, Sandy Carolino D’Araujo1, Céline Dewachter2, Laura Chomette2, Antoine Bondue3, Robert Naeije1, Gianfranco Parati1, Jean-Luc Vachiéry2

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**B82** DYSREGULATION OF WNT-RELATED SIGNALING PATHWAY CORRELATES WITH THE DEVELOPMENT OF PH SECONDARY TO LEFT VENTRICULAR DYSFUNCTION

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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 Tanesi1, Sergio Caravita2, Andrea Rinaldi2, Celine Dewachter3, Enrico Gott4, Thomas Nguyen5, Enrico Monti5, Alessandra Albini6, Massimiliano Palazzini7, Alessandra Manes1, Jean Luc Vachiery2, Nazzareno Galié1

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**B84** PATHOPHYSIOLOGY OF PULMONARY HYPERTENSION DUE TO LEFT HEART DISEASE - A HEMODYNAMIC STUDY

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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 Cipriani1, Fabrizio olive1, Andrea Garascia1, 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

Hidetaka Kikka1, Yoshihiro Asano, Ayako Takwa, Yohei Miyashita, Hiroshi Miyawaki, Tomohito Ohtani, Yoshiki Sawa, Keiko Yamauchi-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 Orlov2, Felix Gerhardt3, Daniel Dumitrescu4, Henrik Ten Freyhaus5, Martin Hellmich6, Stephan Baldus7, Stephan Rosenkranz8

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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 Oh3, Myeong-Chan Cho2

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**PH DUE TO LEFT HEART DISEASES**

**B89** FLUID CHALLENGE DURING RIGHT HEART CATHETERIZATION: AN EXPERIENCE FROM A TERTIARY PULMONARY HYPERTENSION REFERRAL CENTRE

Nima Moghaddam1, John Swistoni1, Robert D Levy1, Lisa Lee2, Victor F Huckell1, Nathan W Brunner1
1University of British Columbia – Vancouver – Canada, 2Vancouver Coastal Health – Vancouver – Canada

**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

Jae-Hyeong Park1, Ju-Hee Lee1, Hee-Jin Kwon1
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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 Pasca1, Fabio Dardi2, Massimiliano Palazzini3, Enrico Gotti4, Andrea Rinaldi2, Alessandra Albini1, Enrico Monti1, Elisa Zuffa, Daniele Guarino5, Nikita Tanese6, Mariangela Rotunno7, Antonio Colangelo3, Alessandra Manes2, Nazzareno Galli2
1University of Bologna, Department of Specialized, Diagnostical and Experimental Medicine – DIMES – Bologna/IT – Bologna – Italy

**B92** NEDA PH-LHD PREDICTIVE MODEL: VALIDATION OF DIASTOLIC MARKERS OF PULMONARY HYPERTENSION WITH RIGHT HEART CATHETERISATION

Geoff Strange1, David Playford2, Pyi Naing3, Jim Codde4, David Celemajer5, Gregory Scalia6, Kevin Chung7
1The University of Notre Dame – Fremantle – Australia, 2The University of Sydney – Sydney – Australia, 3The University of Queensland – Brisbane – Australia

**B93** RHO-KINASE AND CYCLOPHILIN A AS NOVEL THERAPEUTIC TARGETS FOR CARDIAC DIASTOLIC DYSFUNCTION AND POST-CAPILLARY PULMONARY HYPERTENSION

Shinichiro Sunamura1, Kimio Satoh2, Ryo Kurosawa3, Tomohiro Ohtsuki4, Nobuhiro Kikuchi1, Mohammad Elias-Al Mamun4, Toru Shimizu1, Shohei Ikeda1, Kota Suzuki1, Taijyu Satoh1, Junichi Omura1, Masamichi Nogi1, Mohammad Abdul Hai Siddique1, Satoshi Miyata2, Hiroaki Shimokawa2
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**B94** MEAN VELOCITY OF THE PULMONARY ARTERY AS AN EARLY PROGNOSTIC INDICATOR IN HFREF IN RELATION WITH FIBROSIS BIOMARKERS GALACTIN-3 AND ST2/IL-1.

Blanca Trejo-Velasco1, Oscar Fabregat-Andrés1, Maria Pilar García-González2, Monica Ferrando3, Diana Perdomo-Londoño4, Joaquina Belchí5, Cristina Albiach-Montañana5, Sergio Sánchez-Álvarez5, Juan Pablo Cardenas-Tealdo5, Salvador Morell-Cabedo5, Francisco Ridocci-Soriano5
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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*, Zoe Brown1, Andrew Burns1, Trevor Williams2
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C11 SEVERE PULMONARY HYPERTENSION IN TOBACCO-INDUCED RESPIRATORY DISEASES
Samy Chelabi1,2, Guillaume Chassagnori2, Laurent Savale2, Jason Weatherald3, Xavier Jaïs1, Athenais Boucly1, Herve Ma1, Pierre-Regis Burgel3, Gerald Simonneau1, Olivier Sitbon1, Marc Humbert1
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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, Antonino Colangelo, Alessandra Manes, Nazzareno Galí
University of Bologna, Department of Specialized Diagnostic and Experimental Medicine – DfMES - Bologna/IT – Bologna – Italy

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 Kenichi, Matsuoka Yoichiro, Shinke Toshiro, 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
First Department of Internal Medicine, Shinshu University School of Medicine – Matsumoto – Japan

C16 A RARE RESPIRATORY CONDITION ASSOCIATED WITH PULMONARY HYPERTENSION
Yalin Tolga Yaylali*, Sinan Durmus, Alperen Erme Akgun, Fatma Evyapan
Pamukkale University – Denizli – Turkey

C17 BALLOON PULMONARY ANGIOPLASTY (BPA) AS AN ADDITIONAL TREATMENT OPTION FOR PATIENTS WITH INOPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION (CTEPH) TREATED WITH RIOCIGUAT.
Shiro Adachi1,2, Nakano Yoshishisa1, Tajima Fumitaka2, Shimokata Shigetake1, Kamimura Yoshihiro1, Okumura Naoki1, Murohara Toyoaki1, Kondo Takehisa1
1Nagoya university graduate school of medicine – nagoya – Japan, 2Nagoya university hospital – Nagoya – Japan

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
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C20 IS SUBDURAL HAEMORRHAGE AFTER PULMONARY ENDARTERECTOMY UNDER-ESTIMATED?
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C21 ABSENCE OF THE FACTOR V LEIDEN MUTATION AND GENETIC RISK FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
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C22 EFFECT OF BALLOON PULMONARY ANGIOPLASTY ON RIGHT VENTRICULAR AFTERLOAD IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Christian Gerges1, Mario Gerges1, Nika Skoro-Sajer1, Roela Sadushi-Kolic1, Bernhard Moser1, Shahrokh Taghavi1, Walter Klepetko1, Hiromi Matsubara1, Irene Lang1
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C23 VENTILATION/PERFUSION SCINTIGRAPHY FOR THE DIAGNOSIS OF CTEPH AFTER SPLENECTOMY
Mario Gerges1, Christian Gerges1, Karanakis Georgios1, Wolfgang Birkfellner1, Isolde Maria Weinberg1, Ilse Schwarzer1, Max Fubig1, Nika Skoro-Sajer1, Maria Frey1, Michael Schaffrich1, Johannes Jakowitsch1, Klaus Lechner1, Bernhard Moser1, Taghavi Sharokhi1, Walter Klepetko1, Marcus Hacker1, Irene Marthe Lang1
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C24 EXPERIENCE OF ONE YEAR OF BALLOON PULMONARY ANGIOPLASTY IN A SINGLE CENTER: SAFETY AND SHORT TERM RESULTS
Enrico Gott1, 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 Gallé
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 Guth1, Christoph Wiedenroth1, Rieth Andreas1, Christoph Liebetrau1, Manuel Richter1, Hossein Ardeschir Ghofrani1, Eckhard Mayer1
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C26 END-STAGE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: UNIQUE MOLECULAR AND HISTOPATHOLOGICAL IMPRINT
Dijana Iloska1, Jochen Wilhelm2, Stefan Guth3, Rajkumar Sava1, Ralph Schermuly2, Ludger Fink2, Werner Seeger2, Eckhard Mayer2, Soni Pullamsetti Sava2
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C27 USEFULNESS OF PERCUTANEOUS TRANSLUMINAL PULMONARY ANGIOPLASTY FOR CHRONIC PULMONARY THROMBOEMBOLIC DISEASE
Takumi Inami1, Masaharu Kataoka2, Yohei Shigeta1, Kaoi Takeuchi1, Hanako Kikuchi1, Ayumi Goda2, Haruhisa Ishiguro2, Hideaki Yoshino2, Toru Satoh2
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C28 THE RELATIONSHIP BETWEEN THE DIAMETER OF BRONCHIAL ARTERIES AND THE RISK OF PULMONARY EDEMA OR AIRWAY BLEEDING FOR PULMONARY ENDARTERECTOMY
Takayuki Jujo1, Takanori Nishizawa, Sakakun Seiichiro, Akira Naito, Suda Rika, Kasai Hajime, Nishimura Rintaro, Sugiuira Toshihiko, Ishida Keicihi, Tatsumi Koichiro
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C29 HOW DIFFERENT IS CENTRAL VERSUS PERIPHERAL CTEPH?
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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, Shinuke Yusa, 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 Tatsu, Tatebe Shunsuke, Yamamoto Saori, Yoita 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.
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C34 3D PRINTING IN PATIENTS WITH PULMONARY HYPERTENSION
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C35 DRUG-DRUG INTERACTION EVALUATION BETWEEN DIRECT ORAL ANTI COAGULANTS AND PHOSPHODIESTERASE-5 INHIBITORS: A POTENTIAL RISK FOR PULMONARY HYPERTENSION PATIENTS?
Victor Margelidon-Cozzolino*, Sophie Hodin1, Xavier Delavenne2, Laurent Bertoletti3
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C36 PULMONARY ENDARTERECTOMY: BOLOGNA UNIVERSITY EXPERIENCE
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C37 MULTI-STEP THERAPY WITH RIOCIQUAT, 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 Nakashish, Keichi Fukuda, Satoshi Yasuda, Michio Nakashish National Cerebral and Cardiovascular Centre – Osaka – Japan

C38 RESIDUAL RIGHT VENTRICULAR REMODELING FOLLOWING BALLOON PULMONARY ANGIOPLASTY IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Takeshi Ogo*, Ryotaro Asano1, Ohta-Ogo Keiko2, Shigefumi Fukui3, Akihiro Tsuji1, Jin Ueda1, Nao Konagai1, Keichi Fukuda1, Yoshiaki Morita1, Satoshi Yasuda1
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C39 CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION ASSOCIATED WITH CHRONIC SYNTHETIC CANNABINOIDS ‘BONZAI’ USE
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C40 PULMONARY BLOOD VOLUME BY DUAL-ENERGY CT IS A NEW MANAGEMENT INDEX FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Hiroyuki Onishi(1), Nakayama Kazuhiko(1), Yanaka Kenichi(1), Tamada Naoki(1), Izawa Yuu(1), Shinkura Yuto(1), Tubbo Yasunori(1), Shimoyama Shinsuke(1), Nishii Tatsuya(1), Kono Atushi(1), Negi Noriyuki(1), Mori Shumpei(1), Otake Hiromasa(1), Satomi-Kobayashi Seimi(1), Shinke Toshiro(1), Emoto Noriaki(1), Hirata Kenichi(1)

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C41 REPEATED EMBOLIZATION COMBINED WITH INHIBITION OF ANGIoGENESIS RESULTS IN EARLY CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION IN RABBITS
Rozen Quarc(1), Allard Wagenaar(1), Birger Tielemans(1), Frédéric Perro(1), Peter Dorfmüller(1), Catharina Belge(2), Marion Delcroix(2)

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C42 PREVALENCE AND CHARACTERISTICS OF PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION FROM A SINGLE SINGAPORE CENTRE
Wen Ru an(1), Kevin Quah(1), Jonathan Yap(1), Aidila Binte Ismail(1), Duy Wen Sew(1), Ghee Chee Phua(1), Ai Leen Ang(2), Foong Koon Cheah(2), Kenny Loh(1), Chia Alicia Xue Fern(1), Choong Hee Lim(1), Jenkins David(1), Victor Tar Toong Chao(1), Soo Teik Lim(1), Ju Le Tan(1)


C43 SUBCUTANEOUS TRESPROSTINIL FOR THE TREATMENT OF NON-OPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: A RANDOMIZED, CONTROLLED TRIAL (CTREPH)
Roela Sadushi-Kolic(1), Pavel Jansal(1), Grzegorz Kopeć(1), Adam Torbicki(1), Ioana-Alexandra Campean(1), Gert Hoeffken(1), Nika Skoro-Sajer(1), Ivetta Simkova(1), Kristof Karloca(2), Regina Steringer-Mascherbauer(1), Miroslav Samarzija(1), Barbara Salobir(1), Walter Kлепетко(1), Jaroslav Lindner(1), Irene Marthe Lang(1)

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C44 THE ESC/ERS RISK ASSESSMENT INSTRUMENT FOR PATIENTS WITH PULMONARY ARTERIAL HYPERTENSION IS ALSO APPLICABLE IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
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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 Mitsushige, Fukuda Keiichi

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C46 EARLY OUTCOMES FOLLOWING PULMONARY ENDARTERECTOMY: AN AUSTRALIAN TERTIARY REFERRAL CENTRE EXPERIENCE
Sarah Scheuer1, Sam Emmanuel1, Anne Keaghy2, Joanna Pepke-Zaba3, David Jenkins4, David Boshell3, Eugenie Kotyra5, Kumud Dhital5
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C47 PREDICTORS FOR WORSENING HEMODYNAMICS DURING FOLLOW-UP PERIOD AFTER BALLOON PULMONARY ANGIOPLASTY
Yuto Shinkura1, Kazuhiko Nakayama2, Hiroyuki Onishi2, Naoki Tamada2, Yasunori Tsuibo2, Hiromasa Otake2, Seiji Satomi-Kobayashi2, Toshiro Shinkin2, Noriaki Emoto3, Ken-Ichi Hirata2
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C48 A SIMPLE PREDICTIVE ALGORITHM FOR MORTALITY RISK IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Nika Skoro-Sajer1, Christian Gerges1, Mario Gerges1, Adelheid Panzenböck1, Johannes Jakowitsch1, Walter Klepetko1, David Celemajer2, Irene Lang1
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C49 CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION MIMICS PULMONARY EMBOLISM
Andris Skride*, Dana Kigitovica, Valdis Gibietis, Barbara Vitol, Sintija Strautmane
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C50 SAFETY AND EFFICACY OF DIRECT ORAL ANTICOAGULANTS FOR PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION IN ONE EXPERT CENTER IN JAPAN
Rika Suda*, Nobuhiro Tanabe, Takayuki Jujo, Akira Naito, Rintaro Nishimura, Toshihiko Sugihara, Seiichiro Sakao, Koichiro Tatsumi
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C51 PULMONARY ENDARTERECTOMY AND BALLOON PULMONARY ANGIOPLASTY SIMILARLY IMPROVE HEALTH RELATED QUALITY OF LIFE IN PATIENTS WITH CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION.
Naoki Tamada1, Kazuhiko Nakayama1, Ken-Ichi Yanaka1, Hiroyu Onishi1, Yuto Shinkura1, Kazuhiro P Izawa2, Toshiro Shinkin1, Noriaki Emoto3, Ken-Ichi Hirata1
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C52 POOR SUBPLEURAL PERFUSION RELATING TO LESS DEVELOPED BRONCHIAL ARTERIES PREDICTS FAILURE AFTER BALLOON PULMONARY ANGIOPLASTY FOR NON-OPERABLE CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION
Yu Taniguchi1, Philippe Brenot1, Xavier Jais2, Carlos Garcia1, Olivier Planche1, Elie Fadel1, Marc Humbert1, Gerald Simonneau2
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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.
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C54 HYDATID EMBOLIZATION RELATED CHRONIC PULMONARY HYPERTENSION
Omac Tufekcioğlu1, İdris Yakut1, Yucel Kanal1, İlkê Erbay1, Funda Dereagtız1, Yesim Akin1, Levent Birincioglu1, Hatice Sasmaz1
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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, Farhan Raza, Riyaz Bashir, Chandra Dass, Paul Forfia

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C56 INITIAL CLINICAL AND HEMODYNAMIC RESULTS OF A REGIONAL PULMONARY THROMBOENDARTERECTOMY PROGRAM

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C57 ENDOTHELIAL PROGENITOR CELLS (EPCS) IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION (CTEPH)

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C58 PREDICTIVE POWER OF THE RISK STRATIFICATION SCORES FOR PULMONARY HYPERTENSION IN PULMONARY EMBOLISM

Yalin Tolga Yaylali*, Samet Yilmaz, Hande Senol, Omac Tufekcioglu

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C59 PRACTICES SURROUNDING PULMONARY HYPERTENSION AND BRONCHOPULMONARY DYSPLASIA AMONGST NEONATOLOGISTS CARING FOR PREMATURE INFANTS

Gabriel Altit*, Henry Chong Lee, Susan Hintz, Theresa Tacy, Jeffrey Feinstein, Shazia Bhombal

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PEDIATRIC PH

C60 PULMONARY ARTERY HYPERTENSION IS ASSOCIATED WITH DECREASED CARDIAC OUTPUT IN FONTAN PATIENTS

Vincent Aluquin*, Athira Nair, William Lee

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C61 INTRAVENOUS TREPROSTINIL AND OCCULT FRACTURES IN INFANTS: MORE THAN A CASUAL CORRELATION?

Meghan Bernier*, Lewis Romer

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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

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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 Goldman, Angela Sardella, Isabel Torres

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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 Goldman, Maria Sicurello, Alberto Quilindro, Angela Sardella, Ines Abella

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**C65** OUTCOMES OF TREATMENTS OF SELECTIVE PULMONARY VASODILATORS AFTER THE TRANSCATHETER CLOSURE IN ATRIAL SEPTAL DEFECT WITH PULMONARY ARTERIAL HYPERTENSION

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**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 Guarino, Filippo Pasca, Nikita Tanese, Antonio Colangelo, Mariangela Rotunno, Andrea Dindi, Nazzareno Galliè
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**C67** ATRIAL SEPTAL DEFECT FENESTRATED DEVICES IN CHILDREN WITH SEVERE PULMONARY HYPERTENSION

Anne Fournier*, Francisco Gonzales-Barlatay, Maire-Josee Raboisson, Julie Briere, Nagib Dahdah
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**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
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**C69** ECONOMIC EVALUATION AND BUDGET IMPACT ANALYSIS OF A PEDIATRIC PULMONARY HYPERTENSION PROGRAM IN MEXICO.

Humberto Garcia[1][1], Silvia Guzman[2], Enrique Gomez Alvarez[2], Maria Emilia Covian[2], Araceli Olivares[2], Herman Soto[2]

**C70** VENTRICULAR ARTERIAL COUPLING RATIO AND VOLUMES CORRELATE WITH RIGHT VENTRICULAR STRAIN AND PREDICTS OUTCOMES USING THREE-DIMENSIONAL ECHOCARDIOGRAPHY IN PEDIATRIC PULMONARY HYPERTENSION

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**C71** COMPARATIVE ANALYSIS OF DETERMINING RISK FACTORS OF PNEUMOTHORAX COMPLICATING PERSISTENT PULMONARY HYPERTENSION OF THE NEWBORN IN THAI NEONATES

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**C72** A CASE OF ATRIAL SEPTAL DEFECT ASSOCIATED PULMONARY ARTERIAL HYPERTENSION RELATED TO EISENMENGER’S SYNDROME

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**C73** FIRST-IN-CHILD USE OF THE SOLUBLE GUANYLATE CYCLASE STIMULATOR RIOCIGUAT IN PULMONARY ARTERIAL HYPERTENSION

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**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
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**C75** CONGENITAL HEART DEFECT WITH PULMONARY HYPERTENSION: IS POSSIBLE A SURGICAL CORRECTION AFTER TREATMENT WITH SILDENAFIL?

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C76  PHARMACOECONOMIC BURDEN OF PULMONARY HYPERTENSION IN DIFFERENT HEALTH CARE SYSTEMS
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C77  INTERNATIONAL ENVIRONMENTAL SCAN OF SPECIALIZED PULMONARY HYPERTENSION CLINICS

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)

<table>
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<tr>
<th>Registration</th>
<th>Fee</th>
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<tr>
<td>Poster presenters</td>
<td>€ 550,00</td>
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<tr>
<td>University &amp; public/private hospital nurses*</td>
<td>€ 550,00</td>
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<tr>
<td>University &amp; public/private hospital physicians*</td>
<td>€ 1,200,00</td>
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<tr>
<td>No-university/no-public/no-private hospital physicians and pharma companies representatives</td>
<td>€ 3,300,00</td>
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<tr>
<td>Reduced fee for staff members of the sponsor companies</td>
<td>€ 1,650,00</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.

BADGES
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
All the congress venue is WIFI area - codes to access internet are:
• WIFI name: wsph2018
• login: wsph2018
• password: wsph2018

VOTING SYSTEM
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.

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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AIRPORT: Tel: +33 820 42 33 33
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