1. Task Force’s details

Full title: *Assessment of pulmonary exercise hemodynamics*
Chairs’ name: Prof. Horst Olschewski, Prof. Philippe Herve
Number (for approved TF)

2. Personal Information:

Title and name and surname:

Short statement of my expertise in the topic of the Task Force:

<table>
<thead>
<tr>
<th>Dr. Gabor Kovacs</th>
</tr>
</thead>
<tbody>
<tr>
<td>I work in the research group of H. Olschewski and am the first author of recent scientific papers on exercise hemodynamics in healthy subjects and in patients at risk for PH. In addition I recently published on the clinical relevance of borderline pulmonary hemodynamics. I have large personal experience in the performance of exercise catheterizations and echocardiographies.</td>
</tr>
</tbody>
</table>

3. General Disclosure of Conflicts of Interests

I understand that the intent of this disclosure is not to prevent a Task Force member or chair with a significant financial or other relationship from participating in Task Force, but rather to provide other members with information on which they can make their own judgments. It remains for the other Task Force member and chairs to determine whether my interests or relationships may influence my participation in the project. The ERS does not view the existence of these interests or commitments as necessarily implying bias or decreasing the value of the Task Force member/chair’s participation.

☑ Yes, I have the following, real or perceived conflicts of interest that relate to this Task Force. I understand that I have to disclose them to the other Task Force members during the first meeting or teleconference.

G. Kovacs has links with pharmaceutical companies developing drugs in the field of pulmonary hypertension, including Actelion, Bayer, GSK, Pfizer. These links include congress supports and speaker's honoraria.

☐ No, I have no, real or perceived, conflicts of interest that relate to this Task Force.

4. Tobacco Industry-related Conflicts of Interests

ERS does not accept faculty who are receiving funding from the tobacco industry.

In the case of disclosure of a conflict of interest any time after 1/1/2000 by the person concerned, there is a 5-year ban from the date of disclosure before that person is allowed to participate actively in an ERS activity.

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Signature: Dr. Gabor Kovacs          Date: 30-09-2014
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Dr HERVE and Dr OLSCHEWSKI
Number (for approved TF)

2. Personal Information:
Title and name and surname: Dr. Philippe Herve
Short statement of my expertise in the topic of the Task Force:
Expert in Catheterization during exercise in patients with pulmonary hypertension

3. General Disclosure of Conflicts of Interests
I understand that the intent of this disclosure is not to prevent a Task Force member or chair with a significant financial or other relationship from participating in Task Force, but rather to provide other members with information on which they can make their own judgments. It remains for the other Task Force member and chairs to determine whether my interests or relationships may influence my participation in the project. The ERS does not view the existence of these interests or commitments as necessarily implying bias or decreasing the value of the Task Force member/chair’s participation.

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Signature: Philippe HERVE

Date: 17 September 2014
1. Task Force’s details
Full title: *Assessment of pulmonary exercise hemodynamics*
Chairs’ name: H. Olszewski and P. Hervé
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

Joan Albert Barberà, MD, PhD
I have been working in the field of exercise physiology, in particular those aspects related to the vascular regulation for more than 20 years. My research interest has been focused on ventilation-perfusion relationships and the effects of therapeutic interventions. Results of the studies have been published in Am J Respir Crit Care Med, Eur Respir J, J Appl Physiol, Chest and Am J Physiol, among others.

3. General Disclosure of Conflicts of Interests
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☐ Yes, I have the following, real or perceived conflicts of interest that relate to this Task Force. I understand that I have to disclose them to the other Task Force members during the first meeting or teleconference.

☒ No, I have no, real or perceived, conflicts of interest that relate to this Task Force.

4. Tobacco Industry-related Conflicts of Interests
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_NOTE: The ERS no longer accepts Faculty who has links with the tobacco industry. the ERS will have to cancel this invitation and you will be banned for life from all ERS activity._

---

Signature: Joan Albert Barberà  
Date: September 29th, 2014
2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:
I have worked and published few papers on pulmonary hypertension in patients with COPD and on exercise measures in PAH.

3. General Disclosure of Conflicts of Interests
I understand that the intent of this disclosure is not to prevent a Task Force member or chair with a significant financial or other relationship from participating in Task Force, but rather to provide other members with information on which they can make their own judgments. It remains for the other Task Force member and chairs to determine whether my interests or relationships may influence my participation in the project. The ERS does not view the existence of these interests or commitments as necessarily implying bias or decreasing the value of the Task Force member/chair’s participation.

☐ Yes. I have the following, real or perceived conflicts of interest that relate to this Task Force. I understand that I have to disclose them to the other Task Force members during the first meeting or teleconference.
Actelion: personal fees and non-financial support; Bayer: personal fees and non-financial support; Bioprojet Pharma: non-financial support; Boehringer-ingelheim: personal fees and non-financial support; Chiesi: personal fees; GSK: non-financial support; MSD: personal fees; Novartis: personal fees and non-financial support.

☐ No. I have no, real or perceived, conflicts of interest that relate to this Task Force.

4. Tobacco Industry-related Conflicts of Interests
ERS does not accept faculty who are receiving funding from the tobacco industry.

In the case of disclosure of a conflict of interest any time after 1/1/2000 by the person concerned, there is a 5-year ban from the date of disclosure before that person is allowed to participate actively in an ERS activity.

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Signature: Ari Chaouat                      Date: 13th March, 2017
1. Task Force’s details
*Full title: Assessment of pulmonary exercise hemodynamics*
*Chairs’ name: H. Olszewski and P. Hervé*
*Number (for approved TF)*

2. Personal Information:
*Title and name and surname:*
*Short statement of my expertise in the topic of the Task Force:*

Prof. CHEMLA Denis, MD. Professor of Physiology.
Fields of expertise: cardiac and pulmonary vascular parameters in PH, exercise hemodynamics (high-fidelity catheters and fluid-filled catheters).

3. General Disclosure of Conflicts of Interests
I understand that the intent of this disclosure is not to prevent a Task Force member or chair with a significant financial or other relationship from participating in Task Force, but rather to provide other members with information on which they can make their own judgments. It remains for the other Task Force member and chairs to determine whether my interests or relationships may influence my participation in the project. The ERS does not view the existence of these interests or commitments as necessarily implying bias or decreasing the value of the Task Force member/chair’s participation.

☑ Yes, I have the following, real or perceived conflicts of interest that relate to this Task Force. I understand that I have to disclose them to the other Task Force members during the first meeting or teleconference.
I have received a travel grant (Bayer) for travelling and attending the ATS meeting 2014

☐ No, I have no, real or perceived, conflicts of interest that relate to this Task Force.

4. Tobacco Industry-related Conflicts of Interests
ERS does not accept faculty who are receiving funding from the tobacco industry.

In the case of disclosure of a conflict of interest any time after 1/1/2000 by the person concerned, there is a 5-year ban from the date of disclosure before that person is allowed to participate actively in an ERS activity.

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*NOTE: The ERS no longer accepts Faculty who has links with the tobacco industry, the ERS will have to cancel this invitation and you will be banned for life from all ERS activity.*

Signature: D. Chemla, MD

Date: September 18, 2014
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Prof H Olschewski & Dr P Herve
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

I am a consultant respiratory physician in the Sheffield Pulmonary vascular Disease Unit, one of the largest pulmonary hypertension centres in Europe. I have published widely on a range of aspects of pulmonary hypertension including the long term outcome in patients with exercise induced pulmonary hypertension and systemic sclerosis. I was a member of the task force on assesment and diagnosis of PH at the 5th World PH symposium.

3. General Disclosure of Conflicts of Interests
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☒ Yes, I have the following, real or perceived conflicts of interest that relate to this Task Force. I understand that I have to disclose them to the other Task Force members during the first meeting or teleconference.
Honouraria for lecturing, advisory boards and conference travel from Actelion, GSK, United Therapeutics, Bayer and Pfizer pharmaceuticals.

☐ No, I have no, real or perceived, conflicts of interest that relate to this Task Force.

4. Tobacco Industry-related Conflicts of Interests
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Signature: [Signature]
Date: 26/09/14
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Olschewski Horst/Hervé Philippe
Number (for approved TF)

2. Personal Information:
Title and name and surname: Dr. Gilles Garcia
Short statement of my expertise in the topic of the Task Force:
Pulmonologist, Associate Professor in Clinical Physiology, expert in exercise physiology and pulmonary gas exchange in pulmonary arterial hypertension and cardiopulmonary diseases.

3. General Disclosure of Conflicts of Interests
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Signature: ___________________________ Date: 29/09/2014
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Horst Olschewski, Philippe Hervé
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

Prof. Dr. med. Ekkehard Grünig
Assessment of Pulmonary Exercise Hemodynamics by Echocardiography
Profound knowledge and scientific work about exercise hemodynamics, measurement of pulmonary arterial pressure during exercise in pulmonary hypertension and healthy subjects. Scientific work about screening with stress-doppler-echocardiography for at-risk groups for pulmonary hypertension, e.g. the 5th European framework "Disposition to PPH".

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Signature: 

Date: 26.Sep 2014

Please return this form to the ERS Headquarters, duly completed and signed by fax to +41 21 213 01 00 or by email to valerie.rebeaud@ersnet.org
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: H. Olszewski & P. Herve
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

Dr Luke Howard
I oversee the cardiopulmonary exercise laboratory at Hammersmith Hospital and have established hemodynamic exercise testing at our institution, integrating the clinical it in to our research programme, with our current multicentre trials using this as a secondary endpoint. I have published in the field of cardiopulmonary exercise testing and have a special interest in linking exercise physiology to phenotype.

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Signature: Luke Howard
Date: 28 September 2014
1. Task Force’s details

Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Obschewski & Hervé
Number (for approved TF) NA

2. Personal Information:

Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

Marc Humbert, MD, PhD, Professor of Respiratory Medicine, Head of the Inserm Unit 999 (Pulmonary Hypertension: pathophysiology and innovative therapies), vice chairman of the French Refral Center for Pulmonary Hypertension. I have been involvement in pulmonary hypertension education, research and care since the late 1980s. I am currently chairing the ESC/ERS pulmonary hypertension guidelines.

3. General Disclosure of Conflicts of Interests

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☑ Yes, I have the following, real or perceived conflicts of interest that relate to this Task Force. I understand that I have to disclose them to the other Task Force members during the first meeting or teleconference.
M. Humbert has links with pharmaceutical companies developing drugs in the field of pulmonary hypertension, including Actelion, Bayer, GSK, Novartis, Pfizer. These links include consultancy service, speaker at conference and participation in randomized controlled trials.

☐ No, I have no, real or perceived, conflicts of interest that relate to this Task Force.

4. Tobacco Industry-related Conflicts of Interests

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Signature: M. HUMBERT

Date: 25/9/2014

Please return this form to the ERS Headquarters, duly completed and signed by fax to +41 21 213 01 00 or by email to valerie.rebeaud@ersnet.org

CENTRE HOSPITALIER UNIVERSITAIRE DE BICETRE
Service de Pneumologie - Soins Intensifs
75, rue du Général Leclerc
94275 LE KREMLIN BICETRE CEDEX
Secrétariat: 01 45 21 79 72
Pr Marc HUMBERT
RPPS 10001053655
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Horst Olschewski and Philippe Herve
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

Dr Edmund Lau
I am a pulmonologist with clinical and research interest in pulmonary vascular disease. I have published, as first author, on aspects of the pathophysiology of the pulmonary circulation including advanced invasive hemodynamic assessment, lung perfusion in pulmonary vascular disease, and non-invasive evaluation of the RV/pulmonary circulation with stress echocardiography. I currently work at the French National Referral Center with specific clinical interest in invasive exercise hemodynamics.

3. General Disclosure of Conflicts of Interests
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I have received honoraria for speaking engagements and travel support from Actelion Pharmaceuticals.

☐ No, I have no, real or perceived, conflicts of interest that relate to this Task Force.

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Signature: ___________________________ Date: 26/9/2014
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Olszewski Horst/Hervé Philippe
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:
Dr. Pierantonio Laveneziana, pulmonologist, PhD, Assistant Professor in Clinical Physiology, expert in cardiopulmonary exercise testing, pulmonary gas exchange, respiratory mechanics, mechanisms of dyspnoea in cardio-respiratory diseases. Chair of ERS group 4.01

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---

**Signature:**

[Signature]

**Date:** 26/09/2014
1. Task Force’s details
Full title: Assessment of pulmonary hemodynamics during exercise
Chairs’ name: Horst Olschewski
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

Gregory Lewis MD: I have expertise in integrated physiologic testing with gas exchange measurements and hemodynamic measurements during maximum incremental upright exercise. I have led an European-American collaboration to describe pulmonary vascular responses to exercise in normal individuals and in various cardiopulmonary diseases (see Lewis et al, Circulation, 2013).

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Signature: Gregory Lewis  Date: September 28, 2014
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Horst Olschewski,
Number (for approved TF) Philippe Hervé

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:
Robert Naetje, Professor Emeritus in Physiology and Medicine at the Free University of Brussels, Consultant at the Pulmonary Hypertension Clinic, Department of Cardiology, Erasme University Hospital Brussels


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Signature: Robert Naeije                        Date: 28/09/2104
2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:
Non invasive Haemodynamics of the RV

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Signature:  
Date: 16/3/17
1. Task Force's details
Full title: ERS Task Force on Exercise Hemodynamics.
Chairs' name: Horst Olschewski
Number (for approved TF)

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:
Prof. Dr. Stephan Rosenkranz
Expert in the field of pulmonary hypertension, pulmonary hemodynamics, left and right heart failure. Head of PH center at Cologne University. Experience in numerous clinical trials as well as basic research on this topic. Particular interest in exercise hemodynamics in PH and heart failure.

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Signature:  Stephan Rosenkranz  
Date: 30-SEP-2014
1. Task Force’s details

*Full title: Assessment of pulmonary exercise hemodynamics*

*Chairs’ name: Horst Olschewski and Philippe Hervé*

*Number (for approved TF) 4.3 and 4.1*

2. Personal Information:

*Title and name and surname:*

*Short statement of my expertise in the topic of the Task Force:*

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**Rajeev Saggar, MD**
Chair Pulmonary Division and Advanced Lung Disease Institute, Associate Professor of Medicine, Banner Good Samaritan Medical Center

I have strong interest and experience on exercise pulmonary hemodynamics in the US. In addition, I have performed several studies on patients at risk for PH and also investigated therapeutic aspects in conditions with increased pulmonary pressures during exercise. Finally, our group recently completed the first multi-center exercise pulmonary hemodynamic (using right heart catheterization) trial in the U.S. in PH patients evaluating the effects of a therapeutic agent on pressure-flow curves.

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Signature: [Signature]

Date: September 26, 2014
1. Task Force’s details
*Full title: Assessment of pulmonary exercise hemodynamics*
*Chairs’ name: Horst Olschewski,*
*Number (for approved TF) Philippe Hervé*

2. Personal Information:
*Title and name and surname:*
*Short statement of my expertise in the topic of the Task Force:*

Dr. Silvia Ulrich, is a Private Docent of Pulmonology and Head of the Pulmonary Hypertension Unit at the University Hospital of Zurich, Switzerland.
I see many patients daily with PH and perform exercise right heart catheterisation since many years. I have currently three ongoing studies on assessing exercise pulmonary hemodynamics and have done several studies as principal investigator in the field of PH, sleep and oxygen therapy. My special focus thus are the consequences of sleep and exercise on PH and the effect of oxygen therapy.

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Signature: PD Dr. Silvia Ulrich

Date: <29/09/2104>
1. Task Force’s details
Full title: Assessment of pulmonary exercise hemodynamics
Chairs’ name: Horst Olschewski,
Number (for approved TF) Philippe Hervé

2. Personal Information:
Title and name and surname:
Short statement of my expertise in the topic of the Task Force:

Carmine Dario Vizza, associate Professor in Cardiology, University of Rome La Sapienza
I have taken part in a wide range of investigations assessing exercise pulmonary hemodynamics. My special focus is on cardiac and respiratory causes of PH. In particular on the role of vasoactive peptides in the regulation of blood flow and pulmonary vascular resistances.

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Signature: Carmine Dario Vizza
Date: 28/09/2104
ERS Conflict of Interest form for Task Force Chairs and members

Please complete and tick ☑️ the following statements as appropriate.

1. Task Force’s details
   Full title: Assessment of pulmonary exercise hemodynamics
   Chairs’ name: H. Olszewski, P. Herve
   Number (for approved TF) TF-2014-25

2. Personal Information:
   Title and name and surname:
   Short statement of my expertise in the topic of the Task Force:
   Anton Vonk Noordegraaf
   My specific expertise is right ventricular function in relation to the pulmonary vascular load during exercise conditions

3. General Disclosure of Conflicts of Interests
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Signature: Anton Vonk noordegraaf  Date: 15-5-2017

Please return this form to the ERS Headquarters, duly completed and signed by fax to +41 21 213 01 00 or by email to valerie.rebeaud@ersnet.org
1. Task Force's details
Full title: Univ Prof Dr med
Chairs' name: OLSCHENSKI, HORST; HERVE, PHILIPPE
Number (for approved TF)

2. Personal Information:
Title and name and surname: HORST Olschewski
Short statement of my expertise in the topic of the Task Force:
Exercise test with CPET + RHC in controls, borderline PH and manifest PH.

3. General Disclosure of Conflicts of Interests
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Signature: [Signature]                     Date: 29 Sep 2014