

Symposium Internacional sobre Lesión Pulmonar Aguda



16 y 17 de noviembre de 2017



Organizado por la
Unidad de Cuidados Intensivos



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Summary of Meeting

The prevalence of acute pulmonary injury in the ICU is high, and current treatment is only supportive. As recently stated in the *state-of-the-art* pulmonary research conference (Aspen Lung Conference, 2007), where findings from the NHLBI ARDS Network clinical trials were summarized, clinicians and scientists hoped that new pharmacologic, biologic, and genetic approaches for a better understanding of pathogenesis, pathophysiology and treatment of ARDS would improve outcomes in the near future.

We herein announce the second conference on Translational Research in ARDS, held under the auspices of CIBERES and other scientific societies, where current state of the art on research in this area will be reviewed. Speakers have been selected among worldwide-recognized leaders in basic and translational research related to acute pulmonary injury.

At the symposium's conclusion, attendees will be familiar with the evidence used to support the current recommendations for the treatment of patients with ARDS. More importantly they will be introduced to the basic and translational research that will likely alter therapy for this disease within the next several years.

PROFESORES

<i>Ana Geke Algera</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Andrés Esteban</i>	Hosp. Universitario de Getafe, Madrid, Spain
<i>Antonio Artigas</i>	Corporación Sanit. Univ. Parc Taulí, Sabadell, Spain
<i>Antonio Romero</i>	Hosp. Universitario Puerta de Hierro, Madrid. Spain
<i>David van Meenen</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Esther Barreiro</i>	Hosp. del Mar, Barcelona, Spain
<i>Fabienne D. Simonis</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Federico Gordo</i>	Hosp. Universitario del Henares, Coslada, Madrid, Spain
<i>Fernando Suarez Sipmann</i>	University Hospital Uppsala, Sweden
<i>Frank van Someren-Greve</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Giacomo Bellani</i>	University of Milan-Bicocca, Monza, Italy
<i>Guillermo Muñoz-Albaiceta</i>	Hosp. Universitario Central de Asturias, Oviedo, Spain
<i>Javier García</i>	Hosp. Universitario Puerta de Hierro, Madrid, Spain
<i>José A. Lorente</i>	Hosp. Universitario de Getafe, Madrid, Spain
<i>Judith Marín Corral</i>	Hosp. del Mar, Barcelona. Spain
<i>Lieuwe D. Bos</i>	University of Amsterdam. Marie Curie IAPP fellow.
<i>Lluís Blanch</i>	Corporación Sanit. Univ. Parc Taulí, Sabadell, Spain
<i>Lorenzo Ball</i>	University of Genoa, Italy
<i>Lorenzo del Sorbo</i>	University HealthCare Network, University of Toronto
<i>Luigi Pisani</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Marcelo Gama de Abreu</i>	University Hospital Dresden, Germany
<i>Marcus J. Schultz</i>	ACM, Amsterdam, The Netherlands
<i>Matt Harmon</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Nicolás Nin</i>	Hosp. Español, Montevideo, Uruguay
<i>Nicole P. Juffermans</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Oscar Peñuelas</i>	Hosp. Universitario de Getafe, Madrid, Spain
<i>Paolo Pelosi</i>	University of Genoa, Italy
<i>Pouline van Oort</i>	Department of Intensive Care, Amsterdam, the Netherlands
<i>Ramón Farré</i>	Universitat de Barcelona-IDIBAPS, Barcelona, Spain
<i>Raquel Herrero</i>	Hosp. Universitario de Getafe, Madrid, Spain

Programa Científico Preliminar

16 de noviembre de 2017

- 09:00 – 09:30 **Registration**
- 09:30 – 09:50 **Lung histopathology of ARDS**
Andrés Esteban
- 09:50 – 11:10 **FACTORS ASSOCIATED WITH OUTCOME OF ARDS**
Moderator:
Paolo Pelosi
- 09:50 – 10:10 **Biomarkers in ARDS**
Judith Marín Corral
- 10:10 – 10:30 **Subphenotypes of ARDS**
Lieuwe D. Bos
- 10:30 – 10:50 **Current ventilatory practices**
Marcus J. Schultz
- 10:50 – 11:10 **Lung injury in trauma**
Nicole P. Juffermans
- 11:10 – 11:20 **Discussion**
- 11:20 – 11:40 **Coffee break**
- 11:40 – 13:30 **THE “AIR COMPARTMENT” IN ARDS**
Moderator:
Óscar Peñuelas
- 11:40 – 12:00 **Inhalation Therapies in ARDS**
Antonio Artigas
- 12:00 – 12:10 **Protective effects of sevoflurane in VILI**
Antonio Romero
- 12:10 – 12:20 **Exhaled breath analysis for the diagnosis of pneumonia**
Pouline van Oort

- 12:20 – 12:40 **Diagnosis of ARDS by exhaled breath analysis**
Lieuwe D. Bos
- 12:40 – 13:00 **Optimizing nebulization during mechanical ventilation**
Paolo Pelosi
- 13:00 – 13:20 **Impedance tomography to optimize ventilation**
Federico Gordo
- 13:20 – 13:30 **Discussion**
- 13:30 – 14:30 **Lunch**
- 14:30 – 17:30 **'NON-AIR' COMPARTMENTS IN ARDS**
Moderator:
Antonio Artigas
- 14:30 – 14:45 **The effects of body temperature on ventilation parameters**
Matt Harmon
- 14:45 – 15:00 **Prone positioning–induced driving pressure changes predict outcome in ARDS**
David van Meenen
- 15:00 – 15:25 **Heart-lung interactions from a lung's perspective**
Fernando Suarez-Sipmann
- 15:25 – 15:45 **Monitoring recruitment maneuvers at bedside**
Javier García
- 15:45 – 15:55 **Quantitative analysis of lung images**
Lorenzo Ball
- 15:55– 16:10 **Discussion**
- 16:10 – 16:20 **Coffee break**
- 16:20 - 18:00 **TRASLATIONAL RESEARCH IN ARDS**
Moderator:
Marcus J. Schultz
- 16:20 – 16:40 **Why does red blood cell transfusion cause lung injury**
Nicole Juffermans

- 16:40 – 17:00 **New insights into the mechanisms of acute pulmonary edema**
Raquel Herrero
- 16:30 – 16:50 **Strategies for Optimal Lung Ventilation in ECMO for ARDS: The SOLVE ARDS Study**
Lorenzo del Sorbo
- 16:50 – 17:10 **Mechanical stretch modulates cell migration in the lungs**
Guillermo M. Albaiceta
- 17:10 – 17:30 **Lung decellularization: a methodological tool for investigating damage and repair in ALI**
Ramón Farré
- 17:30 – 18:00 **Discussion**

17 de noviembre de 2017

- 09:00 – 11:00 **ORGAN REMOTE AFFECTATION IN ARDS**
Moderator:
Lorenzo del Sorbo
- 09:00 – 09:10 **Prevalence and clinical outcome of viral respiratory tract infections in ventilated critically ill patients**
Frank Van Someren-Greve
- 09:10 – 09:20 **Macrolide antibiotics and outcome in patients with ARDS**
Fabienne D. Simonis
- 09:20 – 09:40 **Tidal volume over end-expiratory lung volume is key for protective mechanical ventilation**
Giacomo Bellani
- 09:40 – 10:00 **Advanced uses of CO₂ kinetics in cardiopulmonary monitoring**
Fernando Suarez Sipmann
- 10:00 – 10:20 **Cognitive rehabilitation in the critically ill patient**
Lluís Blanch
- 10:20 – 10:40 **Models of disuse muscle atrophy: therapeutic implications in critically ill patients**
Esther Barreriro
- 10:40 – 11:00 **Discussion**

- 11:00 – 11:30 **Coffee break**
- 11:30 – 13:30 **MONITORING ARDS**
Moderator:
Óscar Peñuelas
- 11:30 – 11:55 **Spontaneous breathing during mechanical ventilation**
Giacomo Bellani
- 11:55 – 12:20 **Hypercapnia in ARDS**
Nicolás Nin
- 12:20 – 12:35 **Risk stratification using SpO₂/FiO₂ ratio and PEEP at initial ARDS diagnosis and after 24 h in patients with moderate or severe ARDS**
Luigi Pisani
- 12:35– 13:00 **The role of Angiotensin system in the development of VIDD**
Giacomo Bellani
- 13:00 – 13:20 **Round discussion**
- 13:20 – 14:30 **Lunch**
- 14:30 – 16:30 **STRATEGIES OF LUNG PROTECTION**
Moderator:
Nicole Juffermans
- 14:30 – 14:50 **Diagnosis of ARDS and bilateral lung infiltrates**
Nicolás Nin
- 14:50 – 15:10 **Protective ventilation during surgery in high risk patients improves outcomes**
Paolo Pelosi
- 15:10 – 15:30 **Association between driving pressure and development of postoperative pulmonary complications in patients undergoing mechanical ventilation**
Marcus Schultz
- 15:30 – 15:50 **Spontaneous breathing activity in ARDS: friend or foe**
Marcelo Gama de Abreu
- 15:45 – 16:00 **Round discussion**
- 16:00 – 16:20 **Coffee break**

- 16:20 – 18:00 **CUTTING THE EDGE IN ACUTE LUNG INJURY**
Moderator:
Esther Barreiro
- 16:20 – 16:40 **Extracorporeal CO₂ removal in acute exacerbations of COPD**
Lorenzo del Sorbo
- 16:40 – 17:00 **Antioxidant effect of adult adipose-derived mesenchymal stromal cells in VILI**
Oscar Peñuelas
- 17:00 – 17:10 **Effect of PEEP on outcome in animals with uninjured lungs: A systematic review of randomized controlled trials in animals**
Ana Geke Algera
- 17:10 – 17:30 **Variable ventilation: from bench to bedside**
Marcelo Gama de Abreu
- 17:30 – 17:50 **mRNA interference as a therapeutic approach in ALI**
José A. Lorente
- 17:50 – 18:00 **Final discussion**

Secretaría Técnica

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Acreditación

Solicitada Acreditación a la Comisión de Formación Continuada de las Profesiones Sanitarias de la Comunidad de Madrid. Sistema Nacional de Salud.

Inscripciones:

La inscripción incluye:

- Documentación del Curso
- Asistencia a las sesiones científicas
- Cafés y almuerzo

Precio de inscripción:

Miembros de Sociedades Científicas Participantes	300 €
No miembros	350 €