Second International Symposium on
Acute Pulmonary Injury
Translational Research

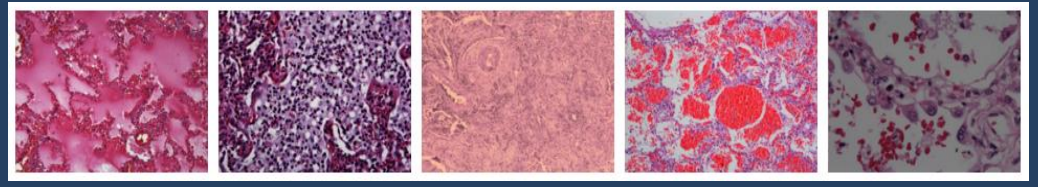
Instituto de Investigación Sanitaria Getafe

SaludMadrid Hospital Universitario de Getafe

Hospital Universitario de Getafe
Ctra. de Toledo (A-42), Km 12'500
28905 Getafe (Madrid)
www.hospitaluniversitariodegetafe.org

November 16nd – 17rd 2017

Organized by the Intensive Care Unit



Organizing Committee

Oscar Peñuelas
Nicolás Nin
Fernando Frutos-Vivar
Federico Gordo
Arnaud W. Thille

Scientific Committee

José A. Lorente
Giacomo Bellani
Marcus J. Schultz
Guillermo Muñiz Albaiceta

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 auspicies 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.

The Organizing Committee

Technical Secretary

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Venue

Aula Magna - Pabellón Docente
Hospital Universitario de Getafe
Ctra. de Toledo (A-42), km 12'500
28905 Getafe (Madrid)

Accreditation

Comisión de Formación Continuada de las Profesiones Sanitarias de la Comunidad de Madrid.

Sistema Nacional de Salud. (Requested)

Registration

The registration fee includes:
•Course documentation
•Attendance at all scientific sessions
•Coffees and lunch

Registration fee:

Members of Participating Scientific Societies	**300 €**
Non members	**350 €**

With the scientific support of the following Societies:

SEMICYUC	Sociedad Española de Medicina Intensiva y Unidades Coronarias
SEPAR	Sociedad Española de Neumología y Cirugía Torácica
SOMIAMA	Sociedad de Medicina Intensiva de la Comunidad de Madrid
ESICM	European Society of Intensive Care Medicine
CIBERES	CIBER de Enfermedades Respiratorias

The contents and ideas expressed in this symposium solely the responsibility of the authors and do not necessarily represent the official view of the scientific societies.

Sponsors

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ORION PHARMA

Faculty

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Fabienne D. Simonis	Depart. of Intensive Care, Amsterdam, the Netherlands
Federico Gordo	Hosp. Universitario del Henares, Coslada, Madrid, Spain
Fernando Suarez Sipmann	University Hospital Uppsala, Sweden
Frank van Someren-Greve	Depart. of Intensive Care, Amsterdam, the Netherlands
Giacomo Bellani	University of Milan-Bicocca, Monza, Italy
Guillermo Muñiz-Albaiceta	Hosp. Universitario Central de Asturias, Oviedo, Spain
Javier García	Hosp. Universitario Puerta de Hierro, Madrid, Spain
Jesús Villar	Hosp. Universitario Dr. Negrin, Las Palmas, Spain
Jordi Mancebo	University of Montreal, Canada
José A. Lorente	Hosp. Universitario de Getafe, Madrid, Spain
Judith Marín Corral	Hosp. del Mar, Barcelona, Spain
Lieuwe D. Bos	University of Amsterdam. Marie Curie IAPP fellow.
Lluis Blanch	Corporación Sanit. Univ. Parc Taulí, Sabadell, Spain
Lorenzo Ball	University of Genoa, Italy
Lorenzo del Sorbo	University HealthCare Network, University of Toronto
Luigi Pisani	Depart. of Intensive Care, Amsterdam, the Netherlands
Marcelo Gama de Abreu	University Hospital Dresden, Germany
Marcus J. Schultz	ACM, Amsterdam, The Netherlands
Matt Harmon	Depart. of Intensive Care, Amsterdam, the Netherlands
Nicolás Nin	Hosp. Español, Montevideo, Uruguay
Nicole P. Juffermans	Depart. of Intensive Care, Amsterdam, the Netherlands
Oscar Peñuelas	Hosp. Universitario de Getafe, Madrid, Spain
Paolo Pelosi	University of Genoa, Italy
Pouline van Oort	Depart. of Intensive Care, Amsterdam, the Netherlands
Ramón Farré	Universitat de Barcelona-IDIBAPS, Barcelona, Spain
Raquel Herrero	Hosp. Universitario de Getafe, Madrid, Spain

November 16

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
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: Giacomo Bellani**
11:40 – 12:00	**Inhalation Therapies for ARDS**	Antonio Artigas
12:00 – 12:10	**Protective effects of sevofluorane 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 – 14:40	**The effects of body temperature on ventilation parameters**	Matt Harmon
14:40 – 15:00	**Clinical applications of esophageal pressure**	Jordi Mancebo
15:00 – 15:10	**Prone positioning–induced driving pressure changes predict outcome in ARDS**	David van Meenen
15:10 – 15:30	**Heart-lung interactions from a lung's perspective**	Fernando Suarez-Sipmann
15:30 – 15:50	**Monitoring recruitment maneuvers at bedside**	Javier García
15:50 – 16:00	**Quantitative analysis of lung images**	Lorenzo Ball
16:00 –16:10	Discussion	
16:10 – 16: 20	Coffee break	
16:20 -18:00	***Traslational research in ARDS***	**Moderator: Marcus 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.	

November 17

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**	Lluis 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: Claudia Dos Santos**
11:30 – 11:50	**Spontaneous breathing during mechanical ventilation**	Giacomo Bellani
11:40 – 12:10	**Lung Protective Ventilation-State of the Art 2017**	Jesús Villar
12:10 – 12:30	**Hypercapnia in ARDS**	Nicolás Nin
12:30 – 12:40	**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
12:40 – 13:00	**Noninvasive ventilation in ARDS**	Jordi Mancebo
13:00 – 13:20	**The role of Angiotensin system in the development of VIDD**	Giacomo Bellani
13:20 – 13:30	Round discussion	
13:30 – 14:30	Lunch	
14:30 – 16:30	***Title: 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 – 18:30	***Cutting the edge in Acute Lung Injury***	**Moderator: Esther Barreiro**
16:20 –16:40	**Extracorporeal CO_2 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 – 18:10	**Opening lecture: 50 Years of ARDS: A Golden Anniversary?**	Jesús Villar
18:10 – 18:30	Final discussion.	