

**Challenges in Mechanical Ventilation and Airway Technologies:  
A Massachusetts General Hospital and Harvard Medicine School Round Table**

The Joseph B. Marin Convention Center, Harvard Medical School  
77 Avenue Louis Pasteur Boston MA 02115

**DAY 1, Thursday May 12**

**Welcome:** Jeanine Wiener-Kronish, MD

**Introduction:** Lorenzo Berra, MD and Robert Kacmarek Ph.D.

*Breakfast 7:30 AM -8:00 AM*

*Morning session 8:00 AM – 1:00 PM*

**Patient-Ventilator Synchrony**

Moderators: Robert M. Kacmarek, PhD and Lorenzo Berra, MD

L. Blanch, MD.

*Patient-Ventilator asynchrony: why is it important? How do we monitor it?*

U. Lucangelo, MD

*A physiologic approach to identify and treat trigger asynchrony.*

J. Mancebo, MD.

*A physiologic approach to identify and treat cycle asynchrony*

To Be Determined.

*A physiologic approach to identify and treat flow and mode asynchrony*

M. Eikermann, MD

*The role of pharmacological treatment of patient-ventilator asynchrony: NMBA vs sedatives vs. narcotics.*

*Lunch Break 12:30 PM-1:30 PM*

*Afternoon Session 1:30 PM to 6:00 PM*

**Airways Care/ VAP-VAE**

Moderators: Robert M. Kacmarek, PhD and Lorenzo Berra, MD

M. Klompas, MD, MPH, FRCPC

*VAP-VAE: What's our target?*

L. Berra, MD

*VAP-VAE: airways obstruction, biofilm and oral care.*

M. Panigada, MD

*VAP-VAE: patient positioning and muco-ciliary clearance.*

A. Torres, MD, PhD  
*VAP-VAE: endotracheal tubes and cuffs design.*

J.J. Rouby, MD  
*What is the role of nebulized antibiotics - when, how and what to treat?*

## **DAY 2, Friday May 13**

### **Lung Mechanics**

Moderators: Robert M. Kacmarek, PhD and Lorenzo Berra, MD

*Breakfast 7:30 AM -8:00 AM*

*Morning Session 8:00 AM – 12:30 PM*

D. S. Talmor, MD, MPH  
*Esophageal manometry to set mechanical ventilation: when and how?*

R.M. Kacmarek, RRT, PhD  
*Respiratory mechanics guided mechanical ventilation in respiratory failure*

M.B.P. Amato, MD, PhD  
*Respiratory mechanics versus imaging in respiratory failure.*

A. Pesenti, MD  
*Respiratory mechanics to guide and during extracorporeal lung support.*

### **Special Lecture**

H.C. Ott, MD  
*New perspectives in respiratory failure: the bio-artificial lung.*

Robert M. Kacmarek, PhD and Lorenzo Berra, MD  
*Summary and Next Steps*

*Lunch Break 1:00 PM - 2:00 PM*

### **Faculty:**

#### Hosting Faculty:

Robert M. Kacmarek, RRT, PhD  
Respiratory Care Department Director  
Massachusetts General Hospital  
Professor, Harvard Medical School

Lorenzo Berra, MD  
Anesthesiologist and Critical Care  
Physician Mass General Hospital  
Assistant Professor, Harvard Medical  
School

Invited Faculty:

Marcelo B.P. Amato, MD, PhD

Chief of the Experimental Pulmonary Laboratory at FMUSP - University of São Paulo  
Full Professor at Universidade de São Paulo, São Paulo, Brazil

Luis Blanch, MD, PhD

Centro de Investigación Biomédica en Red de Enfermedades Respiratorias.  
Critical Care Department. Corporació Sanitària Parc Taulí, Institut Universitari Parc  
Taulí, Universitat Autònoma de Barcelona, Sabadell, Spain.

Matthias Eikermann, MD

Staff Physician Department of Anesthesia, Critical Care and Pain Medicine  
Massachusetts General Hospital, Boston, USA  
Associate Professor Harvard Medical School, Boston, USA

Michael Klompas, MD, MPH, FRCPC

Department of Population Medicine, Harvard Medical School and Harvard Pilgrim  
Health Care Institute, Boston, Massachusetts, United States of America, Infection  
Control Department, Brigham and Women's Hospital, Boston, Massachusetts, United  
States of America

Umberto Lucangelo, MD, PhD

Director of the Department of Perioperative, Emergency and Intensive Care Medicine,  
Ospedale di Cattinara, Trieste Italy. Associate Professor at of Anaesthesia and Critical  
Care Università' degli Studi di Trieste, Italy

Jordi Mancebo, MD, PhD

Servei de Medicina Intensiva, Hospital Santa Creu i Sant Pau,  
Universitat Autònoma de Barcelona, Sabadell, Spain

Mauro Panigada, MD

Staff Physician in the Department of Anesthesia, Critical Care and Pain Medicine,  
Ospedale Ca' Granda Policlinico, Milan, Italy

Antonio M. Pesenti, MD, PhD

Emergency Department Director at Ospedale Ca' Granda Policlinico of Milan  
Full Professor of Anaesthesia and Critical Care at the University of Milan, Milan, Italy

Jean-Jacques Rouby, MD, PhD

Laboratory of Clinical and Experimental Research of the Multidisciplinary Intensive Care  
Unit, Department of Anesthesiology and Critical Care Medicine, La Pitié-Salpêtrière  
Hospital, Assistance-Publique-Hôpitaux-de-Paris, Université Paris VI, Paris, France

Daniel S. Talmor, MD, MPH

Chair of the Department of Anesthesia, Critical Care and Pain Medicine at Beth Israel Deaconess Medical Center (BIDMC)  
Professor of Anesthesia at Harvard Medical School, Boston, USA

Antoni Torres, MD, PhD  
UVIR Institut Clínic de Pneumologia i Cirurgia Toràcica Hospital Clínic, Institut de Investigacions Biomèdiques August Pi i Sunyer, Universitat de Barcelona, Barcelona, Spain

Jeanine Wiener-Kronish, MD  
Anesthetist in Chief, Department of Anesthesia, Critical Care and Pain Medicine at Massachusetts General Hospital.  
Henry Isaiah Dorr Professor of Research and Training in Anesthetics and Anesthesia, Harvard Medical School.