



# I P O K R a T E S

## Clinical Seminar

### Neonatal pulmonary critical care: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease

#### OBJECTIVES

IPOKRaTES seminars provide high-quality postgraduate education, which enables professionals to keep abreast on the most recent developments, and offers participants the opportunity to discuss clinical problems and scientific issues personally with international experts. Emphasis will be made on providing a structured approach to neonatal respiratory assistance from its theoretical and physiological basis to clinical patient management. Demonstrations will be done with respirators and other devices.

#### LECTURERS

Cattarossi L	S. Antonio Abate Hospital, Tolmezzo, Italy
Jobe A	University of Cincinnati, Cincinnati, Ohio, USA
Keszler M	Georgetown University, Washington D.C., USA
Plavka R	Charles University, Prague, Czech Republic
Thebaud B	University of Alberta Edmonton, Alberta, Canada
van Kaam A	Emma Children's Hospital, Amsterdam, The Netherlands

**DATE** October 22 - 24, 2009; starts at 08:30 a.m.

**PLACE** Prague, Czech Republic • Dept. of Obstetrics and Gynecology • 1<sup>st</sup> Faculty of Medicine • General Faculty Hospital • 18 Apolinarska Street • 128 00 Prague 2

LIMITED NUMBER OF PARTICIPANTS: 60

Please Note: Only registered participants, NO on site registration!

**PROGRAM DESIGN** Keszler M and Simbruner G

**TARGET GROUPS** Physicians and other health care professionals from academic and non-university hospitals with interest in mechanical ventilation and other forms of life support. This includes Neonatologists, Pediatricians, Intensivists, Anesthesiologists and others. The number of participants is limited to 60, to optimize opportunity for interaction with faculty.

**MAJOR SPONSORS** Dräger, Elsevier, Heinen + Löwenstein, Nestlé Nutrition Institute

**LOCAL SPONSORS** Nestlé CR, Nutritia, Medisap, Torrex-Chiesi CR, Dartin CR

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Please register via internet: <http://www.ipokrates.info>

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**PARTICIPATION FEES**

Registration	before July 31, 2009	€ 300.-
	after August 1, 2009	€ 350.-



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## PROGRAM

### THURSDAY, OCTOBER 22, 2009

08:30	Welcome and introductory remarks	Plavka R and Keszler M
<b>LUNG DEVELOPMENT AND PATHOPHYSIOLOGY</b>		
09:00	Essentials of pulmonary physiology and lung mechanics	vanKaam A
09:45	Normal and abnormal lung development, role of angiogenesis	Thebaud B
10:30	<i>Break</i>	
11:00	Principles of gas exchange: CO <sub>2</sub> elimination, oxygenation, tissue oxygen delivery	Keszler M
12:00	<i>Lunch Time</i>	
<b>RESUSCITATION/DELIVERY ROOM MANAGEMENT</b>		
13:30	Delivery room stabilization: deconstructing the elements	Jobe A
14:15	Oxygen or RA for neonatal resuscitation?	Keszler M
14:45	Why CPAP works in VLBW infants	Jobe A
15:30	<i>Break</i>	
16:00	How should CPAP be combined with surfactant in extremely preterm infants?	Plavka R
16:45	Breakout sessions / workshops or Roundtable Discussion	
17:15	<i>End</i>	

### FRIDAY, OCTOBER 23, 2009

<b>MECHANICAL VENTILATION</b>		
08:30	Modern mechanical ventilation: overview of basic modes and techniques	Keszler M
09:15	High-frequency ventilation: animal studies, clinical use and clinical trials	van Kaam A
10:00	<i>Break</i>	
10:30	Optimizing weaning and extubation	Keszler M
11:15	Lung-protective positive pressure ventilation: animal studies, clinical use and clinical trials	van Kaam A
12:00	<i>Lunch Time</i>	
13:15 - 14:00	Volume-targeted ventilation: new paradigm in neonatal ventilation	Keszler M
14:45	Principles of mechanical ventilation in extremely preterm infants with evolving BPD	Plavka R
15:30	<i>Break</i>	
<b>TREATMENT OF SPECIFIC DISORDERS</b>		
16:00	The new BPD: its definition, pathophysiology and management	Jobe A
16:45	Breakout sessions / workshops or Roundtable Discussion	
17:15	<i>End</i>	

### SATURDAY, OCTOBER 24, 2009

08:30	Lung echography: a novel tool to assess lung disease	Cattarossi L
09:15	New, promising treatment of BPD: stem cell therapy to rebuild the damaged lung	Thebaud B
10:00	<i>Break</i>	
10:30	Antenatal and postnatal steroids: a view from 2009	Jobe A
11:15	Inhaled NO for term and preterm infants	Thebaud B
12:00	Closing Remarks	Keszler M
12:15	<i>Lunch Time</i>	
13:30	Breakout sessions / workshops	
15:30	<i>End</i>	