

## European School of Neonatology (ESN) Pre-congress Course at jENS 2023

Tuesday, 19 September 2023, 09:00 - 17:00 CEST

**ESPR Section Name:**

Pulmonology

**Course chair(s):**

Bernard Barzilay

**Main theme:**

Mechanical ventilation

**ECTS points:**

0.5

**Course description:**

Neonatal Mechanical Ventilation – Theoretical and Practical Course

**Course objectives:**

- Get an understanding of lung physiology.
- Learn about various modes of conventional mechanical ventilation - advantages and disadvantages.
- Learn about High-Frequency Ventilation.
- Get a sense of graphs and loops associated with mechanical ventilation and its clinical implications.
- Learn about trigger possibilities, including NAVA.
- Gain experience in applying the theory of mechanical ventilation into clinical practice.

**Course programme:**

Time		Topic	Speaker
Start	End		
<b>Theoretical Part</b>			
09.00	09.10	Introduction	Bernard Barzilay
09.10	09.40	Physiology of the Lung	Bernard Barzilay
09.40	10.10	Lung Injury and Protection Strategy	Olivier Danhaive
10.10	10.55	Modes of Conventional Ventilation- SIMV, PTV (AC), PSV including Volume Guarantee	Tomasz Szczapa
11.10	11.40	High Frequency Ventilation	Anton van Kaam
11.40	12.10	Graphs and Loops	Theodore Dassios
12.10	12.35	Trigger Possibilities	Andreas Flemmer
12.35	12.55	NAVA	Hans Fuchs
<b>Practical Part</b>			
13.30	16.30	3 Rotations in small groups (60 min. for each station)	
		1. Conventional ventilation: this includes VTV, loops/graphics, including cases	Tomasz Szczapa, Theodore Dassios
		2. HFV: how to set and how to recruit, including cases	Anton van Kaam, Hans Fuchs
		3. Practical station:	

		a) Surfactant: the way of administration (Like InSuRe, LISA, MIST) b) NAVA- How to set and adjust	Bernard Barzilay  Olivier Danhaive, Andreas Flemmer
16.30	17.00	Closing Remarks	Faculty

**Faculty:**

Name	Position, University	Country
Bernard Barzilay	Head of Neonatology Mayanei Hayeshua Medical Center Chair of the Academy of Neonatology	Israel
Olivier Danhaive	Head of Neonatology Professor of Pediatrics Catholic University Louvain	Belgium
Tomasz Szczapa	Associate Professor at PUMS Board Members European School of Neonatology (ESN) Head - II Department of Neonatology Head - Neonatal Biophysical Monitoring and Cardiopulmonary Therapies Research Unit Chair of Neonatology Poznan University of Medical Sciences Vice president - Polish Neonatal Society	Poland
Anton van Kaam	Professor of neonatology chief of the neonatal intensive care units at the Emma Children's Hospital in the Amsterdam University Medical Centers in Amsterdam, The Netherlands.	The Netherlands
Theodore Dassios	Reader in Neonatology, School of Life Course Sciences, King's College London, Consultant Neonatologist, King's College Hospital NHS Foundation Trust, Neonatal Unit, Golden Jubilee Wing, King's College Hospital, Denmark Hill, SE5 9RS, London, UK	UK
Andreas Flemmer	Head of Neonatology Dr. v. Haunersches Kinderspital & Perinatal Center Campus Grosshadern / City Center LMU Medical Center, Munich University Marchioninistrasse 15, 81377 Munich Germany	Germany
Hans Fuchs	University Hospital Freiburg Center for Pediatrics Section of Neonatology and Pediatric Intensive Care Freiburg, Germany	Germany