



EAPS
17-20 October, Vienna & Online

Vienna



European School
of Neonatology

European School of Neonatology (ESN) Workshop at EAPS 2024

October 19 2024, 08:00-13:00 CEST

Updates on Non-Invasive Ventilation and Bedside Respiratory Function Monitoring in the Newborn

Aim: to understand the working mechanisms and optimization strategies of the more advanced non-invasive ventilation modes (including NIPPV and Synchronized NIPPV, nasal HFV, and NIV NAVA); to learn the principles behind two attractive, non-invasive respiratory function monitoring techniques - the Electrical Impedance Tomography (EIT) and Respiratory Oscillometry (or FOT) - and their applicability in neonatology.

Program:

8:00-8:10 Introduction
Bernard Barzilay, Israel

8:10-8:30 Newer Modes of Non-Invasive Ventilation (nIPPV+Non Invasive HFV)
Hans Fuchs, Germany

8:30-8:50 Closed Loop Oxygen Control on Non-Invasive Respiratory Support
Theodore Dassios, UK

8:50-9:10 NIV NAVA
Richard Sindelar, Sweden

9:10-9:30 Electrical Impedance Tomography
Anton van Kaam, Netherlands

9:30-10:00 Respiratory Oscillometry (Forced Oscillation Technique, FOT)
Anna Lavizzari, Italy

10:00-10:30 Coffee Break

Practical Sessions:

The participants will be divided into 3 groups.

3 Rotating Stations, each station will be 45 minutes.



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Station 1: nIPPV + nHFV

Bernard Barzilay, Israel & Hans Fuchs, Germany

Station 2: NIV-NAVA

Richard Sindelar, Sweden & Theodore Dassios, UK

Station 3: Respiratory function monitoring: Electrical Impedance Tomography and Respiratory Oscillometry (Forced Oscillation Technique, FOT)

Anna Lavizzari, Italy & Anton van Kaam, Netherlands