

F19: Program Brochure

Activity Title	Neonatal Respiratory Care Conference (Tiny Breaths, Big Futures; Updates and Controversies in Respiratory Neonatal Care)
Date	13-15 November 2025
Venue	Pre-conference workshop -Simulation center, Sidra Medicine, Doha, Qatar (13th Nov), Conference - Sidra Ballroom, JW Marriott Marquis, West Bay, Doha, Qatar (14th-15th Nov)
Facilitator/s	Sidra Medicine: Samir Gupta, Roshan Adappa, Dhulipala Anand, Naharmal Soni, Haytham Ali, Jauro Kuna Gaji, Sanoj Ali, Ahmed Abushahin WWRC: Mai Al Qubaisi, Samawal Lutfi, Fouad Abounahia, Abdellatif Abdelwahab
Target Audience	<ul style="list-style-type: none"> • Physicians • Nurses • Allied Health • Pharmacists
Overall Learning Objectives	<ol style="list-style-type: none"> 1. Learn Monitoring and evaluation of babies with respiratory pathology 2. Get skilled in various modes and modalities of invasive ventilation 3. Appreciate various modes and modalities of non-invasive respiratory support 4. Update knowledgebase in Prevention and Management of chronic lung disease and associated complications 5. Gain knowledge base of Principles of management of congenital diaphragmatic hernia 6. Achieve clarity on Pulmonary hypertension and treatment strategies

<p>Day 1: Pre-conference Workshop: 13/11/2025 8:00 -17:00 Registration: 8:00 – 8:20 AM– Simulation Centre, Hospital Building, Sidra Welcome and housekeeping brief: 8:20-8:30am Program Overview</p>		
Time	Session Title/Topic	Session-Specific Learning Objectives By the end of the session, participants will be able to:

8:30am – 9:05 35min	Ventilation Graphics & Bedside monitoring - Lecture Prof. Charles Christopher Roehr (United Kingdom)	<ul style="list-style-type: none">• Compare Ventilatory graphics and loops basic principles and interpretation• Define End tidal PCO2 – neonatal evidence• List Transcutaneous PO2 and PCO2 monitoring – benefits, limitations• Recall the Oxygenation monitoring with OI & OSI		
9:05 – 9:40 35min	Non-invasive respiratory support & LISA/MIST - Lecture Prof. Peter Davis (Australia)	<ul style="list-style-type: none">• Discuss current evidence of its use in NICU -NIV, BiPAP, CPAP, HFNC• List Noninvasive NAVA principles• Demonstrate skills in LISA /MIST		
9:40 – 10:15 35min	Conventional ventilation and patient trigger modes Prof. Martin Kezler (USA)	<ul style="list-style-type: none">• Discuss Basic principles of different modes of ventilation• Name principles of Initiating modes and weaning modes• Summarize Advantages of PSV mode		
10:15 – 10:50 35min	High frequency oscillatory ventilation Prof. Daniel DeLuca (France)	<ul style="list-style-type: none">• Categorize basic principles of HFOV and indications of its use – primary and rescue therapies• Apply Ventilatory data monitoring in HFOV• Justify clarity on HFOV Volume guarantee principles– current evidence• List Pros and cons of current modern ventilators with built in HFOV		
10:50 -11:15	Coffee/Tea break			
	Parallel sessions of workshops: 4 Delegate groups rotating			
11:15 - 12:00 45min	A	B	C	D
12:00 - 12:45 45min	D	A	B	C
12:45 - 13:30	Lunch Break			
13:30 - 14:15 45min	C	D	A	B
14:15 - 15:00 45min	B	C	D	A

Workshop A	<p>Practical demonstration and hands-on experience of interpretation of ventilatory graphics and bedside respiratory monitoring</p> <p>Prof. Charles Christopher Roehr (United Kingdom)</p>	<ul style="list-style-type: none"> Demonstrate ventilatory graphics and hands on experience using test lungs Recall bedside respiratory monitoring understanding of various equipment
Workshop B	<p>Practical demonstration and hands on experience of noninvasive ventilation modes and LISA</p> <p>Prof. Peter Davis (Australia)</p>	<ul style="list-style-type: none"> Demonstrate application of settings of various Noninvasive modes and hands on experience using test lungs Show competency in delivery of LISA/MIST
Workshop C	<p>Practical demonstration and hands-on experience of setting up various modes of conventional ventilation</p> <p>Prof. Martin Kezler (USA)</p>	<ul style="list-style-type: none"> Demonstrate setting up of various invasive modes of ventilation and hands on experience using test lung
Workshop D	<p>Practical demonstration and hands-on experience of setting up of HFOV</p> <p>Prof. Daniel DeLuca (France)</p>	<ul style="list-style-type: none"> Demonstrate HFOV setting & Lung recruitment using test lung Illustrate understanding of factors influencing ventilation in HFOV using test lung (ETT, Compliance, Amplitude, Frequency) Demonstrate setting up of HFOV+VG Define limitations of modern ventilators with HFOV
15:00-15:30	<ul style="list-style-type: none"> Coffee/Tea Break 	
15:30 – 16:00 30min	<p>Respiratory function monitoring in the delivery room</p> <p>Prof. Gianluca Lista (Italy)</p>	<ul style="list-style-type: none"> Identify physiological principles & role of respiratory function monitoring in the stabilization of newborns in the delivery room
16:00 – 16:40 40min	<p>Interactive sessions with Panel of experts with question and answers</p> <p>Prof. Charles Christopher Roehr (United Kingdom) Prof. Peter Davis (Australia) Prof. Martin Kezler (USA) Prof. Daniel DeLuca (France) Prof. Gianluca Lista (Italy)</p>	<ul style="list-style-type: none"> Participate in panel discussions and Q & A on Ventilatory graphics, Conventional ventilation, HFOV, Respiratory function monitoring in delivery room and Noninvasive modes to get clarity on any questions or queries they may have on respiratory care of the newborn
16:40-16:50	Closing remarks	

Day 2: 14/11/2025 - Conference

Time	Session Title/Topic	Session-Specific Learning Objectives
7:30-8:00	Registration	By the end of the session, participants will be able to:
8:00 - 8:10	Introduction	
8:10 - 9:45	Session 1	
8:10-8:35 25 min	Oxygenation of Preterm Infants in the Delivery Room <i>Prof Ola Didrik Saugstad</i> (25mins)	<ul style="list-style-type: none"> Outline the timing of initiation and titration of oxygen in preterm infants in delivery room. Identify effects of hyperoxia and hypoxia in delivery room in preterm infants and their long term impact
8:35-9:00 25 min	Lung Recruitment Maneuver (LRM)– How and Why? <i>Prof Gianluca Lista</i> (25mins)	<ul style="list-style-type: none"> Demonstrate the actual techniques for LRM in the delivery room. Demonstrate actual techniques for LRM in the NICU. Identify actual methods for LRM monitoring both in the delivery room and in the NICU.
9:00-9:25 25 min	Respiratory Management of Extreme Preterm Infants at Borderline Viability <i>Prof Peter Davis</i> (25mins)	<ul style="list-style-type: none"> List differences in pathobiology of infants born prior to 25 weeks' gestation compared to those born at later gestations. Reflect on the typical respiratory course of these infants. Describe practice variation and evidence gaps in management of these infants.
9:25 – 9:45 20 min	Discussion Q&A (20mins)	<ul style="list-style-type: none"> Learn from discussions by interactive questions and answers with experts
9:45 -10:15	Coffee Break	
10:15am-10:30am	Inauguration and welcome	
10:30am – 11:30am	Session 2:	

10:30-10:55 25 min	Mechanical Ventilation: Disease-Specific Strategies <i>Prof Martin Kezler</i> (25mins)	<ul style="list-style-type: none"> • Apply knowledge on physiology of different lung dynamics in different disease states • Demonstrate different modes of ventilation in RDS, MAS, CDH, Air leak syndromes, BPD etc.
10:55-11:20 25 min	Postnatal Corticosteroids to Prevent or Treat BPD - Which Drugs, at What Times? <i>Prof Lex Doyle</i> (25mins)	<ul style="list-style-type: none"> • Recall the evidence supporting the use of postnatal corticosteroids to prevent or treat BPD. • Identify the balance between the risks and benefits of using postnatal corticosteroids to prevent or treat BPD. • Clarify the knowledge gaps when considering use of postnatal corticosteroids to prevent or treat BPD.
11:20-11:30 10 min	Discussion Q&A (10mins)	<ul style="list-style-type: none"> • Learn from discussions by interactive questions and answers with experts
11:30 – 13:00	Prayer & Lunch	
13:00– 15:00	Session 3:	
13:00 -13:25 25 min	Post-Extubation Respiratory Support for Preterm Infants: CPAP, NIPPV or Nasal High Frequency Ventilation <i>Prof Daniel DeLuca</i> (25mins)	<ul style="list-style-type: none"> • Identify the main causes of extubation failures and ways to prevent. • Develop the basic understanding of different NIV modes. • Recognize how to choose between the various modes and personalize the management
13:25 – 13:50 25 min	Management of Bronchopulmonary Dysplasia Associated Pulmonary Hypertension <i>Prof Philip Levy</i> (25mins)	<ul style="list-style-type: none"> • Compare different phenotypes of chronic pulmonary hypertension in preterm infants and their hemodynamic profiles? • Identify diagnostic strategies, including echocardiographic and clinical criteria, for detecting pulmonary hypertension in infants with BPD. • Interpret evidence-based management approaches—including respiratory support, pharmacologic therapies, and nutritional optimization—for improving outcomes in infants with BPD-associated PH

13:50 – 14:15 25 min	Changes in Respiratory Support for Preterm Infants & Long-Term Respiratory Outcomes in Survivors since the 1960s <i>Prof Lex Doyle</i> (25mins)	<ul style="list-style-type: none"> Identify the changes in respiratory support for infants born preterm over the modern era of neonatal intensive care. List the short-term respiratory outcomes and survival rates associated with changes in respiratory support. Identify expected respiratory outcomes into adulthood for the tiniest survivors of neonatal intensive care from the modern era of neonatal intensive care.
14:15 -14:40 25 min	Recent Advances in Pharmacotherapy for Pulmonary Hypertension in Newborn <i>Dr Neil Patel</i> (25mins)	<ul style="list-style-type: none"> Identify pathophysiological mechanisms of PH of the newborn. List the target pharmacological pathways. Realize a pathophysiology-based approach to selecting therapies
14:40 – 15:10 30 min	Discussion Q&A (30mins)	<ul style="list-style-type: none"> Learn from discussions by interactive questions and answers with experts
15:10 -15:40	Coffee Break	
Session 4:	15:30 – 16:45	
15:40-16:05 25 min	European RDS Guideline 2025 <i>Prof Charles Roehr</i> (25mins)	<ul style="list-style-type: none"> Learn Key elements of the 2022 Euro-RDS guidelines with particular focus on supporting pulmonary transition. Appreciate Benefits and cautions related to optimized cord management. Learn Means of assessing respiratory distress syndrome in preterm infants.
16:05-16:30 25 min	Transport of the Ventilated Infant <i>Prof Martin Kezler</i> (25mins)	<ul style="list-style-type: none"> Recall ventilation safety checks prior to transfer Demonstrate trouble shooting of ventilator during the transport Identify changes in patient vitals during different modes of transfer
16:30-16:55 25 min	Discussion Q&A (25mins)	<ul style="list-style-type: none"> Learn from discussions by interactive questions and answers with experts
4:55pm-5:00pm	Closing remarks	

Day 3: 15/11/2025 Conference

Time	Session Title/Topic	Session-Specific Learning Objectives By the end of the session, participants will be able to:
8:00 - 8:15	Registration	
8:15 - 8:30	Recap of Day 1 and Introduction	
8:30 – 10:30	Session 5:	
8:30-8:55 25 min	Non-Invasive Monitoring of Gas Exchange and Assessment of Lung Function <i>Prof Charles Roehr</i> (25mins)	<ul style="list-style-type: none"> Identify Concepts of permissive hypercapnia versus normocapnia. Differentiate Invasive versus non-invasive Carbon Dioxide monitoring. list alternatives to chest X-Ray in assessing lung volume
8:55-9:20 25 min	Bedside Use of Lung Ultrasound to Guide Respiratory Management <i>Prof Daniel De Luca</i> (25mins)	<ul style="list-style-type: none"> Learn the basics of lung ultrasound diagnostics. Understand the main examples of functional quantitative lung ultrasound. Appreciate about ultrasound guided respiratory management
9:20-9:45 25 min	Surfactant Administration: Traditional and Alternative Routes <i>Prof Gianluca Lista</i> (25mins)	<ul style="list-style-type: none"> Recall the physiological effect of surfactant administration. learn the correct technique for administering surfactant. Comprehend the benefits and limits of different surfactant administration routes.
9:45-10:10 25 min	Adjunctive Therapies for Respiratory Support in Newborn Infants <i>Prof Peter Davis</i> (25mins)	<ul style="list-style-type: none"> Demonstrate an understanding of the evidence base relating to the use of caffeine in neonates. Understand the benefits and risks of the use of muscle relaxants and analgesics in ventilated infants. List the range of interventions to prevent or treat bronchopulmonary dysplasia.
10:10-10:30 20 min	Discussion Q&A (20mins)	<ul style="list-style-type: none"> Learn from discussions by interactive questions and answers with experts.
10:30-11:00	Coffee Break	

11:00 – 12:30	Session 6:	
11:00-11:25 25 min	Established and Evolving Therapies for RSV Prophylaxis <i>Prof Manuel Sanchez</i> (25mins)	<ul style="list-style-type: none"> Define the new post Covid burden of RSV disease. Recognize the mechanism of action of the new long action monoclonal antibodies to protect from severe RSV infection. Understand a new universal strategy of protection from RSV infection with long-acting monoclonal antibodies. Identify the use of universal prophylaxis with long-acting monoclonal antibodies in Spain.
11:25-11:50 25 min	Respiratory Outcomes Following Definitive Closure of the Patent Ductus Arteriosus <i>Prof Philip Levy</i> (25mins)	<ul style="list-style-type: none"> Acknowledge the relationship between a patent ductus arteriosus and pulmonary mechanics. Comprehend the major considerations for consideration for procedural closure of the PDA. Recognize the respiratory phenotype following definitive closure of the PDA. Relate respiratory outcomes following definitive closure of PDA and how they dictate the ideal timing for closure.
11:50-12:15 25 min	Searching for Evidence, Gaps in Knowledge and Future Directions in Neonatal Medicine <i>Prof Ola Saugstad</i> (25mins)	<ul style="list-style-type: none"> Recognize how to search for evidence in neonatal medicine Identify current gaps in Neonatal Medicine Acknowledge what future hold in advances in Neonatal Medicine
12:15-12:30 15 min	Discussion Q&A (15mins)	<ul style="list-style-type: none"> Learn from discussions by interactive questions and answers with experts
12:30 – 13:30	Prayer & Lunch:	
13:30 – 14:45	Session 7	
13:30-13:55 25 min	New Ventilatory Strategies for Protection of the Immature Lung, the Role of HFOV Today <i>Prof Manuel Sanchez Luna</i> (25mins)	<ul style="list-style-type: none"> Recall how to prevent ventilator induced lung injury by decreasing the tidal volume. Identify the basics of HFOV combined with volume guarantee. Identify the effect on lung protection with a new philosophy of using very low high frequency tidal volume combined with very high frequencies.

		<ul style="list-style-type: none"> Analyze clinical results of a new combined strategy of preventing immature lung trauma.
13:55-14:20 25 min	Congenital Diaphragmatic Hernia (CDH) Phenotypes and Principles of Management Dr Neil Patel (25mins)	<ul style="list-style-type: none"> List the unique developmental pathophysiology and challenges of CDH. Realize the concepts of postnatal cardio-respiratory phenotypes and interactions in CDH. Recall a pathophysiology-based approach to early postnatal CDH management.
14:20-14:45 20 min	Discussion Q&A (25mins)	<ul style="list-style-type: none"> Learn from discussions by interactive questions and answers with experts
14:45-15:00	Coffee Break:	
15:00 -16:30	Session 8:	
15:00 -16:15 75 min	Case based panel discussions	<ul style="list-style-type: none"> Mark from interesting cases with input from experts Tell interpretation of clinical, laboratory and radiological investigations Recognize evidence-based management of patients
16:15-16:30	Closing remarks and thanks	

“This activity is an Accredited (Category 1) as defined by the Ministry of Public Health’s Department of Healthcare Professions-Accreditation Section and is approved for a maximum of xx hour(s).”

AND/OR

“This activity was planned by and for the healthcare team, and learners will receive xx hours Interprofessional Continuing Education (IPCE) credits for learning and change”.

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The Scientific Planning Committee has reviewed all disclosed financial and relevant relationships of speakers, moderators, facilitators, and/or authors in advance of this CPD activity and has implemented procedures to manage any potential or real conflicts of interest.

