

REGIONAL ADVANCED NEONATAL AIRWAY AND VENTILATION WORKSHOP

SAVING MOTHERS & BABIES FOR THE NEW WORLD

Date: 24th & 25th of September 2022

INTRODUCTION

This dedicated hands-on airway and ventilation workshop aims to ensure that the clinician will be equipped with the knowledge to manage neonatal difficult airways and subsequently manage advanced ventilation issues for various emergency situations. The sessions will have mock scenarios and live presentations with an interactive discussion regarding the management of specific neonatal conditions. The sessions will be led by speakers who are experienced with neonatal ventilation and in the management of difficult airways.

ATTENDEES

Neonatologists, paediatricians and neonatal nurse practitioners who manage neonatal intubation and ventilation.

Total number of participants = 40 (5 groups with 8 participants per group)

LEARNING OUTCOMES

At the end of the workshop, attendees will be able to

1. Outline the steps in approaching infants with difficult airways.
2. Acquire the skills to handle infants with difficult airways in different situations.
3. Describe the indications and limitations of various modes of invasive and non-invasive ventilation for neonates.
4. Outline the ventilation recruitment strategies and troubleshooting methods in rescuing neonates with oxygenation or ventilation issues.

VENUE

Clinical Skills Laboratory, Faculty of Medicine,
University of Malaya, Kuala Lumpur, Malaysia

REGISTRATION

Participants may register at the following website: <https://www.faops2022.com/>

Registration Fees

Delegate (Place of Work/ Residence)	Fees (RM)	Fees (USD) <i>USD 1 = 4.45 MYR</i>
Local	650	145
Abroad	750	170

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SPEAKERS & FACILITATORS



Dr. Peter Reynolds
Consultant Neonatologist
NICU, St. Peter's Hospital
Clinical Lead (Joint) South East
Neonatal Network
Honorary Senior Lecturer,
Royal Holloway University of
London,
United Kingdom



**Assoc. Professor
Dr. Lee Juyoung**
Consultant Neonatologist
Division of Neonatology
Department of Paediatrics
Inha University Hospital of Korea
Incheon
South Korea



**Assoc. Professor
Dr. Azanna Ahmad Kamar**
Consultant Neonatologist
Department of Paediatrics
Faculty of Medicine
University of Malaya
Kuala Lumpur, Malaysia



**Assoc. Professor
Dr. Jeyanthi Kulasegarah**
Consultant Paediatric
Otorhinolaryngologist & Head of
Department
Department of Otorhinolaryngology
Faculty of Medicine
University of Malaya
Kuala Lumpur, Malaysia



**Dr. Matthew Chong Hon
Loon**
Consultant Neonatologist
Gleneagles Hospital
Kota Kinabalu
Sabah, Malaysia



Dr. Jeyasakthi Saniasaya
Paediatric Otorhinolaryngology
Specialist
Department of Otorhinolaryngology
Faculty of Medicine
University of Malaya
Kuala Lumpur, Malaysia



Dr. Wong Chee Sing
Consultant Neonatologist
Department of Paediatrics
Hospital Raja Permaisuri
Bainun
Ipoh, Malaysia



Dr. Cheong Shu Meng
Consultant Neonatologist
Sunway Medical Centre
Bandar Sunway
Selangor, Malaysia



Dr. Eric Ang Boon Kuang
Consultant Neonatologist
Department of Paediatrics
Hospital Sultanah Bahiyah
Kedah, Malaysia

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PROGRAMME

DAY 1: SATURDAY, 24 TH SEPTEMBER 2022		
TIME	TOPIC	SPEAKERS
0830 – 0900	REGISTRATION Coffee & Biscuits	
0900 - 0915	Welcome Message	Azanna A Kamar
0915 – 0930	A Multi-Disciplinary Approach to Difficult Airways in Neonates	Jeyanthi Kulasegarah
0930 – 1000	Recognising the Difficult Airway: Airway Assessment Tools & Scores in Neonates	Jeyanthi Kulasegarah
1000 - 1030	Be Prepared! The Difficult Airway Toolkit	Jayasakthi Saniasaya
1030 – 1100	BREAK TIME!	
1100 - 1145	Different Strokes! Clinical scenarios of difficult airway situations <i>Cleft lip & palate</i> <i>Cystic hygroma</i> <i>Micrognathia & Other morphological anomalies (Pierre Robin etc.)</i>	Jeyanthi Kulasegarah & Jayasakthi Saniasaya
1145 – 1245	<u>Groups' Hands-On Session</u> Airway Challenges	All Facilitators
	<ol style="list-style-type: none"> 1) <i>Inserting the Tracheostomy & Trachy-Change</i> 2) <i>Bougie for endotracheal tube change/ ETT change methods</i> 3) <i>Direct Video Laryngoscope</i> 4) <i>Laryngeal Mask Airway Insertion and Uses</i> 5) <i>Video stylet flexible scope</i> 	
1245 – 1300	Airway Wrap-Up Questions & Answers	
1300 – 1400	LUNCH	

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DAY 1: SATURDAY, 24 TH SEPTEMBER 2022		
TIME	TOPIC	SPEAKERS
1400 – 1430	Protect First! Ventilating the “Normal?” Neonatal Lungs <ul style="list-style-type: none"> - <i>Normal lung physiology</i> - <i>Overview of Ventilation Modes</i> - <i>Non-Invasive Ventilation Modes</i> 	Matthew Chong Hon Loon
1430 – 1500	Understanding pulmonary mechanics of the diseased neonatal lungs <ul style="list-style-type: none"> (1) Respiratory Distress Syndrome (2) Bronchopulmonary Dysplasia 	Azanna Ahmad Kamar
1500 – 1530	Understanding pulmonary mechanics of the diseased neonatal lungs <ul style="list-style-type: none"> (1) Congenital Diaphragmatic Hernia (2) Meconium Aspiration Syndrome 	Peter Reynolds
1530 – 1715	<p><u>Groups’ Hands-On Session</u> <u>Understanding Common Advanced Ventilation Modes: How, Why & Why Not?</u></p>	<p>All Facilitators</p> <ul style="list-style-type: none"> (1) Peter Reynolds/ Azanna A Kamar (2) Eric Ang (3) Wong Chee Sing (4) (a) Matthew Chong (b) Cheong Shu Meng
	<ul style="list-style-type: none"> (1) Volume guarantee <ul style="list-style-type: none"> a. Which volume, which babies? b. Auto-CPAP and Increased work-of-breathing c. The Low TV Alarm (2) Patient Trigger Ventilation (PTV/SIPPV) (3) SIMV + PS/ PSV (4) Protecting the Lungs: <ul style="list-style-type: none"> (a) Surfactant Techniques - MIST/ LISA (b) Surfactant Techniques - INSURE <p>& Post Surfactant Ventilation Strategy with Non-Invasive Ventilation</p>	
1715 – 1730	WRAP-UP DAY 1: Tea & Biscuits Questions & Answers	

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DAY 2: SUNDAY, 25 th SEPTEMBER 2022		
TIME	TOPIC	SPEAKER
0830 – 0900	REGISTRATION Coffee & Biscuits	
0900 – 0945	Neurally Adjust Ventilator Assist (NAVA) in the NICU – Clinical Scenarios & Troubleshooting	Lee Juyoung
0945 – 1030	Lung Recruitment Strategies: High-Frequency Oscillatory Ventilation & Other Useful Modes	Peter Reynolds
1030 – 1100	Lung Recruitment Strategies: High-Frequency Jet Ventilation	Eric Ang
1100 – 1130	The Devil in Disguise: Airway Pressure Release Ventilation	Wong Chee Sing
1130 – 1200	BRUNCH	
1200 – 1230	Troubleshoot! Use of Pulmonary Graphics in Different Scenarios <ul style="list-style-type: none"> - Lung hysteresis - Scalar waves - Volume, Pressure, Flow - Loops 	Peter Reynolds
1230 – 1315	<u>Groups Hands-On Session</u> Applications of Pulmonary Graphics GROUPS Scenarios <ol style="list-style-type: none"> (1) Raining? Leaking? (2) The I:E Ratio Conundrum (3) Overventilation & Beaking (4) Obstruction – Mixed, Extrathoracic, Intrathoracic (5) Patient-Ventilator Dyssynchrony 	All Facilitators (1) Cheong Shu Meng (2) Eric Ang (3) Matthew Chong (4) Wong Chee Sing (5) Lee Juyoung/ Azanna
1315 – 1400	<u>Hands-On Session: GROUPS</u> Advanced Ventilation Modes Scenarios <ol style="list-style-type: none"> (1) High Frequency Oscillatory Ventilation – With & Without VG (2) High-Frequency Jet Ventilation (3) Airway Pressure Release Ventilation (APRV) (4) Combined Oscillatory Mandatory Ventilation (5) Neurally Adjust Ventilatory Assist (NAVA) 	All Facilitators (1) Peter Reynolds (2) Eric Ang (3) Wong Chee Sing (4) Matthew Chong (5) Lee Juyoung
1400 – 1415	WRAP-UP, Q & A, GOODBYE	

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COMMITTEE MEMBERS

SCIENTIFIC CHAIR

Assoc. Professor Dr. Azanna Ahmad Kamar

Consultant Neonatologist
Department of Paediatrics
Faculty of Medicine
University of Malaya
Kuala Lumpur
Malaysia

COMMITTEE MEMBERS

Dr. Matthew Chong Hon Loon

Consultant Neonatologist
Gleneagles Hospital
Kota Kinabalu
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Department of Paediatrics
Hospital Raja Permaisuri Bainun
Ipoh
Malaysia

Dr. Eric Ang Boon Kuang

Consultant Neonatologist
Department of Paediatrics
Hospital Sultanah Bahiyah
Kedah
Malaysia

Dr. Chan Kok Joo

Fellow in Neonatology & Paediatrician
Department of Paediatrics
Faculty of Medicine
University of Malaya
Kuala Lumpur
Malaysia

Dr. Cheong Shu Meng

Consultant Neonatologist
Sunway Medical Centre
Bandar Sunway
Selangor, Malaysia

SN Yus Nurul Fadhina

Staff Nurse
Neonatal Intensive Care Unit
Department of Paediatrics
University of Malaya Medical Centre
Kuala Lumpur
Malaysia

Assoc. Professor Dr. Jeyanthi Kulasegarah

Consultant Paediatric Otorhinolaryngologist & Head of
Department
Department of Otorhinolaryngology
Faculty of Medicine
University of Malaya, Kuala Lumpur
Malaysia

Dr. Jeyasakthi Saniasaya

Paediatric Otorhinolaryngology Specialist
Department of Otorhinolaryngology
Faculty of Medicine
University of Malaya, Kuala Lumpur
Malaysia

Assoc. Professor Dr. Choo Yao Mun

Consultant Neonatologist
Department of Paediatrics
Faculty of Medicine
University of Malaya, Kuala Lumpur
Malaysia

Sr. Priscilla Peli

Nurse Manager
Neonatal Intensive Care Unit
Department of Paediatrics
University of Malaya Medical Centre
Kuala Lumpur
Malaysia

Sr Faizah Zulkifli

Nurse Manager
Nursing Development Unit
Department of Nursing
University of Malaya Medical Centre
Kuala Lumpur
Malaysia

Sr Alice Ho Man Mooi

Retired Neonatal Nurse Manager
Council Member
Perinatal Society of Malaysia
Kuala Lumpur
Malaysia