

Gulf Pediatric Critical Care Conference

Forging Connections:
 Enhancing Critical Care for Children

23-26 January

 Sidra Medicine Auditorium and
 Simulation Center

2025



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WELCOME MESSAGE

Dear Colleagues,

On behalf of the Organizing Committee, it is my honor and privilege to welcome you to the First Gulf Pediatric Critical Care Conference 2025, hosted by Sidra Medicine in Doha, Qatar, from January 23rd to 26th. This landmark event brings together healthcare professionals dedicated to advancing critical care for our youngest and most vulnerable patients.

Under the theme “Forging Connections – Enhancing Critical Care for Children,” we emphasize the importance of collaboration, innovation, and shared commitment in improving pediatric critical care across the Gulf region. Despite the remarkable progress in healthcare within the Gulf, the care of critically ill children remains a shared responsibility and a significant challenge. This conference provides a platform to foster regional collaboration, bridge gaps, and pool resources to achieve transformative advancements. By uniting international and regional experts, we aim to exchange ideas, share knowledge, and develop sustainable strategies to elevate care standards and improve outcomes for children.

Our scientific program features distinguished speakers, panelists, and participants engaging in discussions on the latest clinical research, innovative practices, and the integration of technology. We have also organized excellent pre-conference and post-conference hands-on workshops to advance the critical skills needed in our field. With a focus on multidisciplinary approaches, the conference underscores our collective mission to place children and their families at the center of our efforts.

I invite each of you to build meaningful connections, share your expertise, and explore opportunities for impactful collaboration. Together, let us strive toward a future where every critically ill child in the Gulf region and beyond receives the highest standard of care. Welcome, and may this gathering inspire us all to drive meaningful progress in pediatric critical care.

Dr. Ikram UI Haque, MD, FAAP, FCCM.

Conference Chair, GPCCC
Division Chief, Critical Care Medicine
Sidra Medicine, Doha Qatar

TARGET AUDIENCE

This conference is designed for a diverse audience of healthcare professionals dedicated to pediatric critical care. It aims to foster collaboration and knowledge sharing among these key stakeholders to improve patient outcomes and elevate the standards of pediatric critical care.

- Pediatric intensive care specialists
 - Neonatologists
 - Emergency physicians
 - Infectious disease experts
 - Allied health professionals, including nurses, respiratory therapists and paramedics
 - Researchers and academics focused on pediatric health
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OVERALL LEARNING OBJECTIVES

- 1** Recall the basic principles of ECMO therapy and its application in pediatric care.
- 2** Explain the basic principles and approach to managing the difficult airway in pediatric care.
- 3** Apply innovative strategies and best practices in pediatric critical care in clinical scenarios.
- 4** Analyze evidence-based guidelines and explain their role in ensuring optimal patient care.
- 5** Implement strategies learned from high-quality educational sessions (keynotes, panels, workshops) into real-world clinical settings.
- 6** Demonstrate the application of principles of NIV through clinical hands-on workshops, ensuring the safe usage of NIV in acute care.
- 7** Apply principles of CKRT, Apheresis, and Tandem extracorporeal therapies through clinical hands-on workshops in the acute care setting.

COMMITTEE

Organizing Committee



Dr. Ikram Haque
Conference Chair



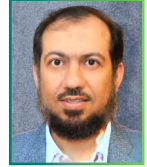
Dr. Patricia
Abboud



Dr. Manu Sundaram



Dr. Grace van
Leeuwen



Dr. Hashem
Alhashemi



Dr. Said Al Hanshi



Dr. Tareq Alyed



Dr. Reema Ajawi



Dr. Khaled El Lithy



Dr. Mussab Al
Ramsi

Scientific Committee



Dr. Duncan Macrae



Dr. Ricardo Branco



Dr. Raghad
Al-Abdwani



Dr. Yasser Kazzaz



Dr. Jihad Zahraa



Dr. Fajer Altammar



Dr. Khaled Bshesh



Ismail Azzam



Joy Kiat-Floro

Other Committee



Dr. Amrita Sarpal



Dr. Gehan Mostafa
Abdalla Aly



Dr. Prabhakar
Nayak

SPEAKERS

International Speakers



Dr. Jana Assy 



Dr. Arun Bansal 



Dr. Patricia Bastero 



Dr. Joseph Carcillo 



Dr. Akash Deep 



Dr. Ecyrd Abdala Elias 



Dr. Antonio Perez Iranzo 



Dr. Sidra Ishaque 



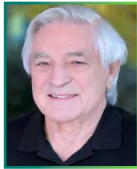
Dr. Ririe Malisie 



Dr. Ricardo Muñoz 



Dr. Vinay Nadkarni 



Dr. Christopher Newth 



Gisela Ponce 



Dr. Marti Pons 



Dr. Barney Scholefield 

Regional Speakers



Dr. Eidah Al Ahmari 



Dr. Abdulla Alfraji 



Dr. Ayman Khalil Ebrahim Ali 



Dr. Nada Aljassim 



Dr. Eman Al Maslamani 



Dr. Khaloud Al Mukhaini 



Dr. Abdullah Alwadai 



Dr. Gehan Mostafa Abdalla Aly 



Dr. Ammar AlZadjali 



Abirami Balasubramaniyan 



Dr. Ricardo Branco 



Marina Demosthenous 



Dr. Taseer Feroze Din 



Dr. Hamza Elkhidir 



Dr. Nesreen Faqih 



Nithin George 



Dr. Mohammed Ghaly 



Elisabetta Giacomini 



Dr. Benedict Griffiths 



Dr. Ahmad Kaddourah 



Dr. Grace van Leeuwen 



Dr. Duncan Macrae 



Arul Kumar Natarajan 



Dr. Prabhakar Nayak 



Dr. Sathesh Ponnarneni 

SPEAKERS (continuation)

Regional Speakers



Dr. Dua Qutob 



Dr. Amrita Sarpal 



Dr. Maike Schumacher 



Dr. Tripiti Sinha 



Dr. Manu Sundaram 



Dr. Saif Awlad Thani 



Dr. Diego Arango Uribe 

PRE-CONFERENCE WORKSHOP 1-23 JANUARY 2025

FUNDAMENTALS OF ECMO

Course Director:

Dr. Grace van Leeuwen,
Dr. Patricia Bastero

Expert Faculty:

Dr. Jana Assy, Dr. Nada Aljassim, Dr. Ecryd Abdala Elias, Gisela Ponce,
Dr. Yasser Kazzaz, Dr. Hamza Elkhidir, Elisabetta Giacomini, Dr. Ririe Malisie

 **Location:** CM.100, Mall Level Outpatients Clinic (OPC)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
8:00-9:00	ECMO overview – VA and VV Grace van Leeuwen	Understand the basic principles of ECMO therapy and its application in pediatric care.
9:00-10:00	ECMO Components and disposables Elisabetta Giacomini	Identify and describe the components of an ECMO circuit. Discuss the functionality and purpose of each component in the ECMO setup.
10:00-10:15	BREAK	
10:15-10:45	Monitorization and blood gases Patricia Bastero	Discuss strategies for monitoring and managing pediatric patients on ECMO, including hemodynamic.
11:00-11:45	Group A – ECMO demonstration Group B – ECMO demonstration All Speakers	Demonstrate the ability to monitor and interpret ECMO circuit parameters effectively in a clinical setting.
11:45-12:30	Intro to SIMS Elisabetta Giacomini	Explain the importance of teamwork and effective communication within the ECMO team and its impact on patient outcomes.
12:30-13:30	LUNCH BREAK	
13:30-14:30	Group A – VA SIM All Speakers Group B – Anticoagulation and transfusion with game Grace van Leeuwen	Identify common ECMO circuit issues and develop troubleshooting skills. Discuss strategies managing pediatric patients on ECMO and anticoagulation.
14:30-15:30	Group A – Anticoagulation and transfusion with game Grace van Leeuwen Group B – VA SIM All Speakers	Identify common ECMO circuit issues and develop troubleshooting skills. Discuss strategies managing pediatric patients on ECMO and anticoagulation.
15:30-15:45	BREAK	

PRE-CONFERENCE WORKSHOP 1-23 JANUARY 2025

 **Location:** CM.100, Mall Level Outpatients Clinic (OPC)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
15:45-16:30	Group A – VV SIM All Speakers	Demonstrate knowledge of safe decannulation techniques.
	Group B – complications+ weaning Jana Assy	
16:30-17:15	Group A – Complications and weaning Jana Assy	Demonstrate knowledge of safe decannulation techniques.
	Group B – VV SIM All Speakers	
17:15-17:30	WRAP UP	

PRE-CONFERENCE WORKSHOP 2-23 JANUARY 2025

ADVANCED AIRWAY MANAGEMENT IN THE CRITICALLY ILL CHILD

Course Director:

Dr. Ikram Haque

Expert Faculty:

Dr. Taseer Feroze Din, Dr. Tripiti Sinha, Dr. Antonio Perez Iranzo, Dr. Manu Sundaram, Dr. Benedict Griffiths, Nithin George, Dr. Eidah Al Ahmari, Dr. Ahmad Al Mosawi, Dr. Sidra Ishaque

 **Location:** Tower C: 2C 305

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
8:00-8:25	COFFEE AND REGISTRATION	
8:25-8:35	Welcome and Introduction Ikram Haque	
8:35-9:25	Pediatric Airway Anatomy and Physiology Faculty: Ahmad Al Mosawi Talk/Lecture: Full Group	Identify the importance of strategic airway assessments and demonstrate how to perform them effectively in various pediatric age groups. Demonstrate strategic airway assessments.
	Management of the Difficult airway - Tips and tricks Faculty: Tripiti Sinha Talk/Lecture: Full Group	Identifying predictors of a difficult airway; pre-intubation assessment; airway evaluation tools and risk assessment scores.
9:25-10:15		

PRE-CONFERENCE WORKSHOP 2-23 JANUARY 2025

 **Location:** Tower C: 2C 305

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
10:15-11:00	<p>Bronchoscopy in a critically ill child</p> <p>Faculty: Antonio Perez Irazo, Manu Sundaram</p> <p>Hands on Session Split Group in 2 rooms – 15 attendees each</p>	Demonstrate the technique and describe the indications for bronchoscopy in children
11:00-11:15	BREAK	
11:15-12:00	<p>Management of difficult pediatric airway with adjuncts</p> <p>Faculty: Sidra Ishaque, Eidah Al Ahmari, Nithin George</p> <p>Hands on Session Split Group in 2 rooms – 15 attendees each</p>	<p>Identify and manage difficult airway scenarios in pediatric patients effectively.</p> <p>Develop strategies for managing a difficult airway, including use of video laryngoscopy.</p>
12:00-12:45	<p>Surgical airway And Rigid Bronchoscopy</p> <p>Faculty: Taseer Feroze Din</p> <p>Talk/Lecture: Full Group</p>	Understand the need for a surgical airway procedure in pediatric patients when all other airway management options have failed.
12:45-13:30	LUNCH BREAK	
13:30-13:45	<p>Preparing for difficult intubation</p> <p>Faculty: Tripiti Sinha</p> <p>Talk/Lecture: Full Group</p>	Discuss medication, techniques, RSI, Gas Induction.
13:45-14:15	<p>Video Review of difficult airways and bronchoscopy</p> <p>Faculty: Taseer Feroze Din, Antonio Perez Irazo</p> <p>Hands on Session Split the group in 2 rooms</p>	Identify the various pathologies from videos.

PRE-CONFERENCE WORKSHOP 2-23 JANUARY 2025

 **Location:** Tower C: 2C 305

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
14:45-15:30	<p>Flexible Bronchoscopy - BAL and Foreign body</p> <p>Faculty: Antonio Perez Iranzo, Manu Sundaram, Nithin George, Benedict Griffiths</p> <p>Hands on Session Split the group in 2 rooms</p>	Describe how to use a bronchoscope as an intensivist.
15:30-15:45	COFFEE BREAK	
15:45-16:30	<p>Bronchoscopy Simulator</p> <p>Faculty: Manu Sundaram, Antonio Perez Iranzo, Benedict Griffiths</p> <p>Hands on Session Split the group in 2 rooms</p>	Demonstrate the application of learned techniques and skills in a controlled environment.
16:30-17:15	<p>Airway Management in Special Circumstances</p> <p>Faculty: Taseer Feroze Din, Eidah Al Ahmari, Nithin George, Benedict Griffiths</p> <p>Hands on Session Split the group in 2 rooms</p>	Demonstrate practical training on manikins in scenario-based simulations.
17:15-18:00	<p>Review of Guidelines and Protocols and wrap up</p> <p>Faculty: Sidra Ishaque, Ahmad Al Mosawi, Tripiti Sinha, Manu Sundaram</p> <p>Talk/Lecture/Discussion: Full group</p>	Identify and summarize the relevant clinical guidelines and protocols, including the 2022. Difficult Airway Society (UK), the 2022 American Society of Anesthesiologists Practice Guidelines for Management of the Difficult Airway, and the 2024 Society of Anesthesiology and Intensive Care guidelines for airway management in infants and pediatrics.

CONFERENCE DAY 1-24 JANUARY 2025

Location: Sidra Medicine Auditorium (Al Gharrafa St, Ar Rayyan, Qatar Auditorium HB-2D-100)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
8:00-8:10	OPENING REMARKS	
8:10-8:50	PLENARY SESSION: Past present and future of pediatric critical care Duncan Macrae Moderator: Ikram Haque (Conference Chair)	Explain the evolution of pediatric critical care practices and how past innovations have shaped current standards of care.
8:50-10:20	Cardiac Critical Care Symposium Moderators: Ricardo Muñoz, Grace van Leeuwen	
8:50-9:10	Brain in the Cardiac Intensive Care Ricardo Muñoz	Analyze the impact of cardiac surgeries and interventions on brain health and neurological outcomes in the ICU. Explain the relationship between cardiac conditions and brain injury in critically ill pediatric patients.
9:10-9:30	Intensive care of complex single ventricle Abdullah Alwadai	Describe the unique hemodynamic challenges associated with caring for patients with complex single ventricle in the ICU.
9:30-9:55	Simulation in ECMO-The mini-SIM Elisabetta Giacomini	Evaluate the effectiveness of mini-simulation (Mini-SIM) as a method for revalidation and ongoing skill maintenance in ECMO management.
9:55-10:10	Diagnostic Approach of tracheobronchomalacia in CICU Antonio Perez Iranzo	Describe the diagnostic strategies for tracheobronchomalacia specifically for patient scenarios in the CICU.
10:10-10:20	Discussion	
10:20-10:30	SHORT BREAK	
10:30-11:10	PLENARY SESSION: Critical Care Monitoring in the AI era Ricardo Muñoz Moderator: Khaled El Lithy	Describe the challenges in implementing AI in critical care monitoring. Explain the utility of AI in pediatric critical care monitoring.
11:10-11:30	OPENING CEREMONY	
11:30-13:00	PRAYER AND LUNCH BREAK	

CONFERENCE DAY 1-24 JANUARY 2025

Location: Sidra Medicine Auditorium (Al Gharrafa St, Ar Rayyan, Qatar Auditorium HB-2D-100)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
13:00-13:40	<p>PLENARY SESSION: The Brain in Pediatric Critical Illness Barney Scholefield Moderator: Mosharraf Shamim</p>	Describe the potential neurological derangements that occur in critical illness.
13:40-15:10	<p>SCIENTIFIC SESSION: Neurocritical Care Moderators: Barney Scholefield, Hashem Alhashemi</p>	
13:40-14:00	<p>Advanced Neuro monitoring: luxury or necessity Ricardo Branco</p>	Assess whether advanced neuro monitoring is a necessity based on patient outcomes and resource allocation.
14:00-14:20	<p>Acute Neuroinflammatory disorders in the PICU Ayman Khalil Ebrahim Ali</p>	<p>Differentiate between various neuroinflammatory disorders based on their clinical presentations and responses to treatment. Evaluate current therapeutic strategies for acute neuroinflammatory disorders in the PICU, considering both efficacy and safety.</p>
14:20-14:40	<p>Super refractory status epilepticus Ammar AlZadjali</p>	<p>Explain the underlying mechanisms leading to super refractory status epilepticus and its progression. Describe the challenges and treatment failures in patients with super refractory status epilepticus.</p>
14:40-15:00	<p>Early Mobilization in Pediatric Critical Care Saif Awlad Thani</p>	<p>Recall the key principles and goals of early mobility in pediatric patients. Explain the importance of neurorehabilitation in the recovery process after neurological injury or illness.</p>
15:00-15:10	Discussion	
15:10-15:40	COFFEE BREAK AND POSTER SESSION	

CONFERENCE DAY 1-24 JANUARY 2025

Location: Sidra Medicine Auditorium (Al Gharrafa St, Ar Rayyan, Qatar Auditorium HB-2D-100)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
15:40-16:20	<p>PLENARY SESSION: Update in the Management of Septic Shock Joseph Carrillo Moderators: Ricardo Branco, Mussab Al Ramsi</p>	<p>Analyze the impact of recent advancements on patient outcomes in septic shock management. Evaluate the effectiveness of emerging therapies in septic shock management, particularly in reducing mortality.</p>
16:20-17:50	<p>SCIENTIFIC SESSION: Sepsis Moderators: Ricardo Branco, Mussab Al Ramsi</p>	
16:20-16:40	<p>SCIENTIFIC SESSION: Sepsis early recognition and Phoenix Criteria Yasser Kazzaz</p>	<p>Describe how to use the Phoenix Criteria to recognize and diagnose early sepsis in clinical practice. Differentiate between early sepsis and other conditions with similar presentations using the Phoenix Criteria.</p>
16:40-17:00	<p>Fluid resuscitation and de-resuscitation in sepsis Vinay Nadkarni</p>	<p>Apply appropriate fluid management strategies, including resuscitation and de-resuscitation, in septic patients. Assess the balance between effective resuscitation and the prevention of fluid overload in septic patients.</p>
17:00-17:20	<p>Recognition and management of Ped Sepsis phenotypes Nesreen Faqih</p>	<p>Explain how recognizing sepsis phenotypes can influence treatment decisions and patient outcomes. Describe the clinical criteria for recognizing and managing different sepsis phenotypes in pediatric patients.</p>
17:20-17:40	<p>Managing emerging inf & multi-resistant organism sepsis? Eman Al Maslamani</p>	<p>Identify common emerging infections and multi-resistant organisms involved in pediatric sepsis. Analyze the clinical and microbiological data to optimize the management of sepsis involving multi-resistant pathogens.</p>
17:40-17:50	<p>Discussion</p>	

CONFERENCE DAY 2-25 JANUARY 2025

Location: Sidra Medicine Auditorium (Al Gharrafa St, Ar Rayyan, Qatar Auditorium HB-2D-100)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
8:00-8:40	PLENARY SESSION: Advances in Pediatric Resuscitation Vinay Nadkarni Moderators: Hamza Elkhidir, Khaled Bshesh	Understanding the latest guidelines and how to improve outcomes through innovative resuscitation strategies for children.
8:40-9:50	RESUSCITATION UPDATE SESSION Moderators: Ikram Haque (Conference Chair), Reema Ajawi	
8:40-9:00	Post Resuscitation Management Barney Scholefield	Describe the key components of post resuscitation management.
9:00-9:20	E-CPR: who, when, and where? Maïke Schumacher	Describe the clinical indications for E-CPR
9:20-9:40	POCUS guided resuscitation Arun Bansal	Describe the current guidelines and protocols for POCUS usage in pediatric resuscitation
9:40-9:50	Discussion	
9:50-10:20	COFFEE BREAK AND POSTER VIEWING	
10:20-11:00	PLENARY SESSION: Advances in Pediatric ARDS Christopher Newth Moderators: Christopher Newth, Patricia Abboud	Identify the latest diagnostic criteria for pediatric ARDS. Evaluate new therapeutic modalities, including ventilatory and pharmacological interventions, in the treatment of pediatric ARDS.
11:00-12:30	RESPIRATORY SYMPOSIUM Moderators: Christopher Newth, Patricia Abboud	
11:00-11:20	NIV in Viral Infections with Acute Respiratory Failure Manu Sundaram	Identify the indications for using non-invasive ventilation (NIV) in pediatric patients with viral infections and acute respiratory failure. Implement appropriate NIV strategies for managing pediatric patients with viral-induced acute respiratory failure.
11:20-11:40	Can't Extubate: Managing Complex airways in PICU Taseer Feroze Din	Evaluate the effectiveness of different airway management strategy in a pediatric patient with a complex airway issue

CONFERENCE DAY 2-25 JANUARY 2025

Location: Sidra Medicine Auditorium (Al Gharrafa St, Ar Rayyan, Qatar Auditorium HB-2D-100)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
11:40-12:00	Life Threatening Pertussis Abdulla Alfraj	<p>Explain the pathophysiology of pertussis and the reasons it can become life-threatening, especially in infants and young children.</p> <p>Apply evidence-based interventions for the management of life-threatening pertussis in the PICU.</p> <p>Analyze the risk factors and complications leading to severe or fatal outcomes in children with pertussis.</p>
12:00-12:20	Obstructive phenotype of respiratory infections in children Christopher Newth	Understand the pathophysiology, identify the symptoms, and management strategies for obstructive respiratory conditions in pediatric patients.
12:20-12:30	Discussion	
12:30-13:30	LUNCH BREAK AND POSTER VIEWING	
13:30-15:00	SCIENTIFIC SESSION: Extracorporeal Support in Pediatric Critical Care Moderators: Said Al Hanshi, Patricia Bastero	
13:30-13:50	Renal Replacement Therapies Ahmad Kaddourah	Describe the appropriate renal replacement therapy strategies based on patient assessment and clinical guidelines for pediatric patients in acute or chronic renal failure.
13:50-14:10	Extracorporeal Liver Support Akash Deep	Describe the mechanisms and principles behind extracorporeal liver support therapies, such as molecular adsorbent recirculating system (MARS) and Prometheus.
14:10-14:30	Ventricular Assist and long-term cardiac support Gehan Mostafa Abdalla Aly	Explain the indications and patient selection criteria for the use of ventricular assist devices in pediatric populations.
14:30-14:50	Plasma Exchange Diego Arango Uribe	Evaluate the effectiveness of plasma exchange compared to other therapeutic options in the management of specific pediatric conditions in the PICU.
14:50-15:00	Discussion	
15:00-15:10	SHORT BREAK	

CONFERENCE DAY 2-25 JANUARY 2025

Location: Sidra Medicine Auditorium (Al Gharrafa St, Ar Rayyan, Qatar Auditorium HB-2D-100)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
15:10-16:20	Enhancing Quality, Safety and Outcomes Moderators: Tareq Alyed, Manu Sundaram	
15:10-15:30	Pre and Post PICU Management- EWS, RRT, Outreach Marina Demosthenous	Analyze the effectiveness of outreach services and rapid response systems in reducing PICU admissions and improving patient outcomes.
15:30-15:50	PICU transition and long-term home ventilation Marti Pons	Understand the evidence-based practices to ensure a safe and effective transition from PICU to home ventilation, including caregiver training and equipment management.
15:50-16:10	Embedding a safety culture in the PICU Jihad Zahraa	Identify key principles and strategies for creating a safety culture in the PICU environment.
16:10-16:20	Discussion	
16:20-16:40	BREAK AND POSTER VIEWING	
16:40-17:00	PLENARY SESSION: Ethically Charged situations in Pediatric Critical Care an Islamic Perspective. Mohammed Ghaly Moderators: Raghad Al-Abdwani, Yasser Kazzaz	Analyze the intersection of Islamic ethical principles with modern medical practices in the context of pediatric critical care. Evaluate the ethical implications of decisions made in pediatric critical care, considering both Islamic values and medical guidelines.
17:00-18:00	ROUND TABLE: Ethical Challenges in the Gulf Region Fajer Altammar, Raghad Al-Abdwani, Jihad Zahraa, Yasser Kazzaz, Amrita Sarpal, Ririe Malisie	Describe the influence of cultural, religious, and legal factors on ethical decision-making in the GCC Evaluate case-based examples of how ethical principles are applied to difficult situations, such as organ donation and brain death, in different cultural and legal contexts.
18:00-18:20	ABSTRACT PRESENTATIONS AND PRIZE Moderator: Prabhakar Nayak	Identify current research in critical care and its' application
18:20-18:30	CLOSING REMARKS	

POST-CONFERENCE WORKSHOP 1-26 JANUARY 2025

ACUTE NON-INVASIVE VENTILATION WORKSHOP

Course Director:
Dr. Manu Sundaram

Expert Faculty:
Dr. Marti Pons, Dr. Arun Bansal, Dr. Tareq Alyed,
Dr. AbdulRahman Al-Daithan, Abirami Balasubramanian,
Dr. Khaloud Al Mukhaini

 **Location:** Tower C: 2C 305

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
7:00-7:30	REGISTRATION	
7:30-7:40	Introduction	
7:40-8:00	Applied NIV physiology Marti Pons	Explain how NIV supports respiratory mechanics by improving gas exchange, reducing work of breathing, and enhancing alveolar ventilation. Identify the basic physiological principles behind Non-Invasive Ventilation (NIV), such as pressure support, positive end-expiratory pressure (PEEP), and tidal volume.
8:00-9:00	How to use NIV: Iceman Algorithm I & C: Know your Indications/ Contraindications for NIV Manu Sundaram	Describe a systematic approach to initiating NIV. Improve understanding of the rationale of safe patient selection for NIV. Explain the rationale behind each step in the algorithm for NIV initiation.
	M: Modes: Let's make it clear Arun Bansal	Understand the various mode in NIV
	A: Analysis of failure Marti Pons	Describe how to identify a patient improving or deteriorating on NIV.
	N: Next steps: Monitoring & Weaning AbdulRahman Al-Daithan	Explain how to monitor a patient on NIV and facilitate weaning
9:00-9:20	HFNC and CPAP Tareq Alyed	Explain the clinical scenarios where HFNC would be preferred to CPAP
9:20-9:45	BREAK	
9:45-10:30	Practical demonstration: NIV with home machines Manu Sundaram, Tareq Alyed	Explain how various types of machines and interfaces work and the differences between ventilation modes. Identify key parameters to monitor in patients receiving NIV therapy.
10:30-11:15	Practical demonstration: NIV with NIV specific machines Marti Pons, Khaloud Al Mukhaini	See above

POST-CONFERENCE WORKSHOP 1-26 JANUARY 2025

 **Location:** Tower C: 2C 305

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
11:15-12:00	Practical demonstration: NIV with conventional ventilator Arun Bansal, AbdulRahman Al-Daithan, Abhirami Balasubramanyam	See above
12:00-12:45	LUNCH BREAK	
12:45-13:00	Case based scenario: hypercarbia Manu Sundaram, Khaloud Al Mukhaini	Explain the physiological effects of NIV on reducing hypercarbia by enhancing alveolar ventilation and removing excess carbon dioxide. Recall the various interventions to reduce hypercarbia.
13:00-13:45	Case based scenario: Hypoxia Marti Pons, Abhirami Balasubramanyam	Describe how NIV improves oxygenation in hypoxic patients by increasing positive end-expiratory pressure (PEEP) and preventing alveolar collapse.
13:45-15:00	Case based scenario: HFNC and CPAP Arun Bansal, Tareq Alyed	Compare different clinical scenarios to determine when the algorithm should be adjusted or modified.
15:00-15:15	COFFEE BREAK	
15:15-15:45	NAVA in NIV Marti Pons	Explain the principle of NAVA.
15:45-16:00	QUESTION, FEEDBACK AND CLOSING REMARKS	

POST-CONFERENCE WORKSHOP 2-26 JANUARY 2025

CONTINUOUS KIDNEY REPLACEMENT THERAPY (CKRT), APHERESIS AND TANDEM EXTRACORPOREAL THERAPIES WORKSHOP

Course Director:
Dr. Prabhakar Nayak

Expert Faculty:
Dr. Ahmad Kaddourah, Dr. Akash Deep, Dr. Dua Qutob, Arul Kumar Natarajan, Dr. Satheesh Ponnarmani

 **Location:** CM.100, Mall Level Outpatients Clinic (OPC)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
7:30-8:00	REGISTRATION AND WELCOME	
8:00-8:30	CKRT in critically ill children: Introduction & Principles Prabhakar Nayak	Explain the principles of working of CKRT and Apheresis with examples and case scenarios and how to utilize them in the treatment of critically ill children.

POST-CONFERENCE WORKSHOP 2-26 JANUARY 2025

 **Location:** CM.100, Mall Level Outpatients Clinic (OPC)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
8:30-9:00	How I write a good CKRT prescription Ahmad Kaddourah	Explain and demonstrate the various parameters to focus on whilst writing a safe and efficient prescription for CKRT.
9:00-9:30	Anti-coagulation in CKRT Dua Qutob (heparin and citrate) Akash Deep (prostacyclin)	Explain the use of different anticoagulation agents like heparin, citrate and prostacyclin in the various clinical situations as well their monitoring for safe administration.
9:30-9:45	CKRT in ECMO Prabhakar Nayak	Explain how CKRT is to be used whilst a patient is already on ECMO as a modality for tandem extracorporeal therapies.
9:45-10:00	CKRT in Liver failure Akash Deep	Explain the benefits and safe use of CKRT as a treatment modality in critically ill children with acute liver failure.
10:00-10:15	BREAK	
10:15-10:45	Setting up the CKRT machine Ahmad Kaddourah	Demonstrate the set up the CKRT machine on a critically ill patient.
10:45-11:15	Trouble shooting and Alarms on CKRT Ahmad Kaddourah, Akash Deep	Demonstrate how to trouble shoot the various potential issues whilst on CKRT and understand the different alarms on the machine.
11:15-11:45	CKRT on ECMO Application Prabhakar Nayak, Dua Qutob, Arul Kumar Natarajan	Demonstrate how to connect and manage the patient to the ECMO machine which is already connected to the patient.
11:45-12:45	PRAYER AND LUNCH BREAK	
12:45-13:15	Apheresis ABC Ahmad Kaddourah	Explain the principles of use of apheresis in critically ill children, the various indications and the pitfalls to avoid.
13:15-13:30	Plasma Exchange for TAMOF Ahmad Kaddourah	Explain the benefits of plasmapheresis in children with TAMOF and how to safely use it and the duration of treatment
13:30-13:45	Plasma Exchange for Liver Failure Akash Deep	Describe how plasma exchange if beneficial in the setting of liver failure and the principles of safely and effectively using it an essential mode of therapy.
13:45-14:00	RBCs Exchange Critically Ill Sickler's Arul Kumar Natarajan	Describe how Apheresis should be used in children with sickle cell anemia and the indications and safe administration of the treatment.

POST-CONFERENCE WORKSHOP 2-26 JANUARY 2025

Location: CM.100, Mall Level Outpatients Clinic (OPC)

TIME	TITLE / TOPIC	SPECIFIC LEARNING OBJECTIVES
14:00-14:15	Leukapheresis in Critically ill children Arul Kumar Natarajan	Explain the principles, indications and management of leukapheresis in critically ill children as lifesaving therapy.
14:15-14:30	BREAK	
14:30-15:00	Setting up the Apheresis Machine Arul Kumar Natarajan	Practice how to safely and effectively setting up the Apheresis machine in a critically ill patient.
15:00-15:20	Membrane Apheresis Ahmad Kaddourah	Practice in hands-on session to utilize the Apheresis machine effectively to provide membrane apheresis.
15:20-15:40	TPE in Action-Hands on and Trouble Shooting Arul Kumar Natarajan, Dua Qutob	Practice in a hands-on practical session to troubleshoot various alarms on an apheresis machine and apply strategies to ensure safe and effective treatment.
15:40-16:00	Pro-Con Debate: CKRT in ICU should be run by intensivists vs Nephrologists (UK model vs North American Model) (Actually it is all about Teamwork = Sidra Model) All Speakers	Recall the different models of setting up and running a CKRT service in ICU for critically ill children.
16:00-16:15	CLOSING REMARKS FEEDBACK AND GOODBYES	

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 29 hours.

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