

NEONATAL/PERINATAL MEDICAL FORUM

NPMF'25

MARCH 21-22


TASHKENT, UZBEKISTAN

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Organizers:



Sponsored by:  **Chiesi**



WELCOME TO **NPMF 25!**



Assoc. Prof. Katrin Klebermass-Schrehof, MD PhD

Chair NPMF 25, Scientific Board Member

It is my distinct honor and privilege to welcome you all to this year's Neonatal-Perinatal-Medical Forum (NPMF 2025), an exceptional gathering of neonatology experts from around the world.

This conference represents more than just a forum for scientific exchange; it is a celebration of collaboration and the shared commitment we hold to improve care for our tiny patients. With participants hailing from diverse corners of the world, we have a unique opportunity to learn from each other's experiences and discuss challenges facing neonatal care today.

Our program is designed to offer a balance of enlightening scientific sessions and opportunities for informal networking. From keynote lectures by world-renowned experts to interactive workshops and case discussions, we aim to spark meaningful dialogue and foster new partnerships that can transcend borders.

Beyond the professional exchange, this conference also offers moments to connect on a personal level. Whether it's during the evening or at coffee breaks, I encourage you to take the time to build friendships, strengthen old connections, and embrace the diversity of our neonatal community. I am confident that the ideas and partnerships formed here will ripple far beyond these few days and leave a lasting impact on our field.

Welcome to Tashkent, and welcome to NPMF 2025!

Warm regards,

Klebermass-Schrehof



WELCOME TO **NPMF 25!**



Prof. Umida Nasirova, MD D Med Sc

*Chief Neonatology Specialist of the Ministry of Health
of Uzbekistan*

Distinguished Guests, Esteemed Colleagues, and Honored Participants of the Neonatal Forum,

On behalf of the Ministry of Health of the Republic of Uzbekistan, I warmly welcome you to this prestigious event, where experts from around the world unite to advance neonatal care. Uzbekistan, renowned for its rich history, culture, and hospitality, has made significant strides in healthcare under the visionary leadership of our President and Government. Reforms have enhanced maternal and child health through investments in modern infrastructure, advanced neonatal care, and professional development. This forum reflects our shared commitment to ensuring every child has the best possible start in life, fostering global collaboration to address challenges and inspire innovation.

I hope your time in Uzbekistan will be professionally enriching and personally memorable.

With warm regards,

GUESTS OF HONOUR



Basitkhanova Elmira

*Doctor of Medical Sciences, Professor
Deputy Minister of Health of the Republic of Uzbekistan
Tashkent, Uzbekistan*



Akilov Khabibulla

*Director of Center for the Development of Professional Qualification of
Medical Workers
Doctor of Medical Sciences, Professor
Academician of the Turon Academy of the Academy of Sciences of the
Republic of Uzbekistan
Tashkent, Uzbekistan*



Urinbaeva Nilufar

*Doctor of Medical Sciences
Director of Republican Perinatal Center
Tashkent, Uzbekistan*



Nadirkhanova Natalya

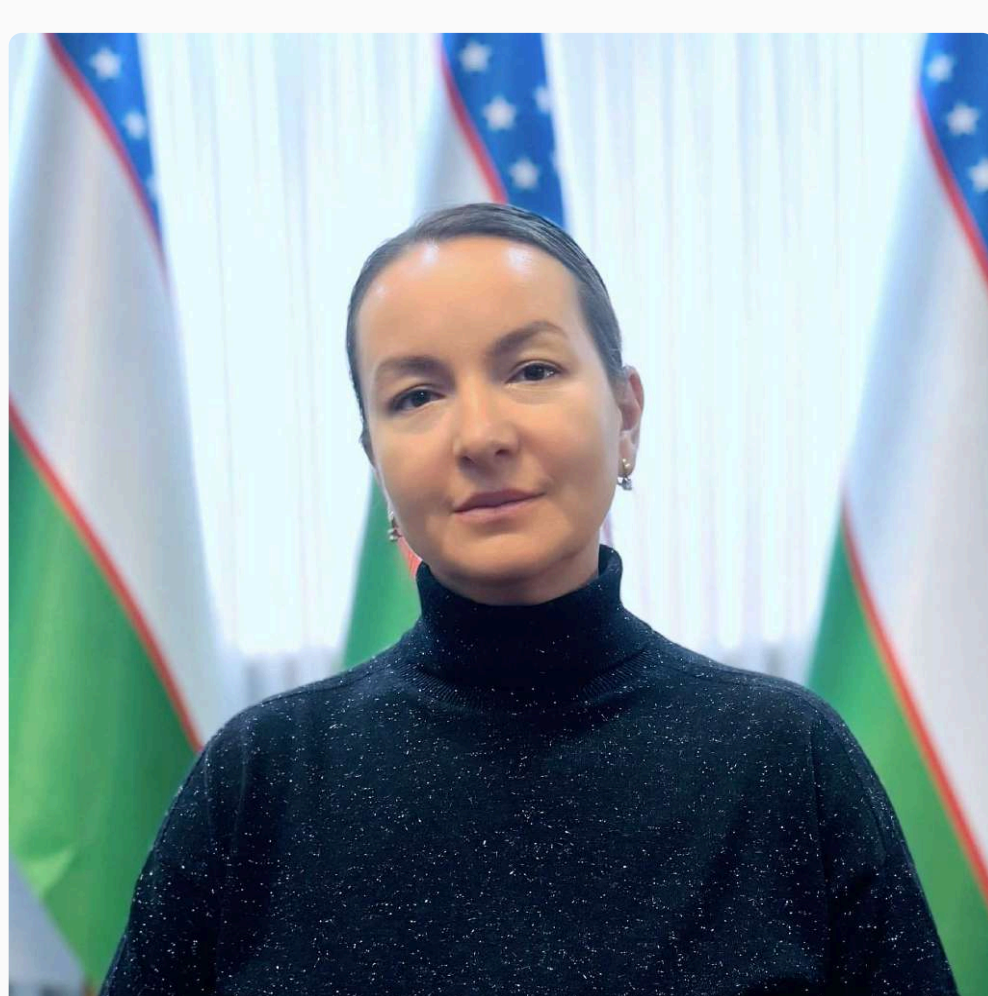
*Doctor of Medical Sciences
Director of Republican Specialized Scientific and Practical Medical Center
for Maternal and Child Health
Tashkent, Uzbekistan*

CHAIRMEN



Assoc. Prof. Katrin Klebermass-Schrehof, MD PhD

*Chair NPMF 2025, Scientific Board Member
Deputy Head of Division of Neonatology, Pediatric Intensive Care and
Neuropediatrics
Department of Pediatrics and Adolescent Medicine
Medical University Vienna
Vienna, Austria*



Prof. Umida Nasirova, MD D Med Sc

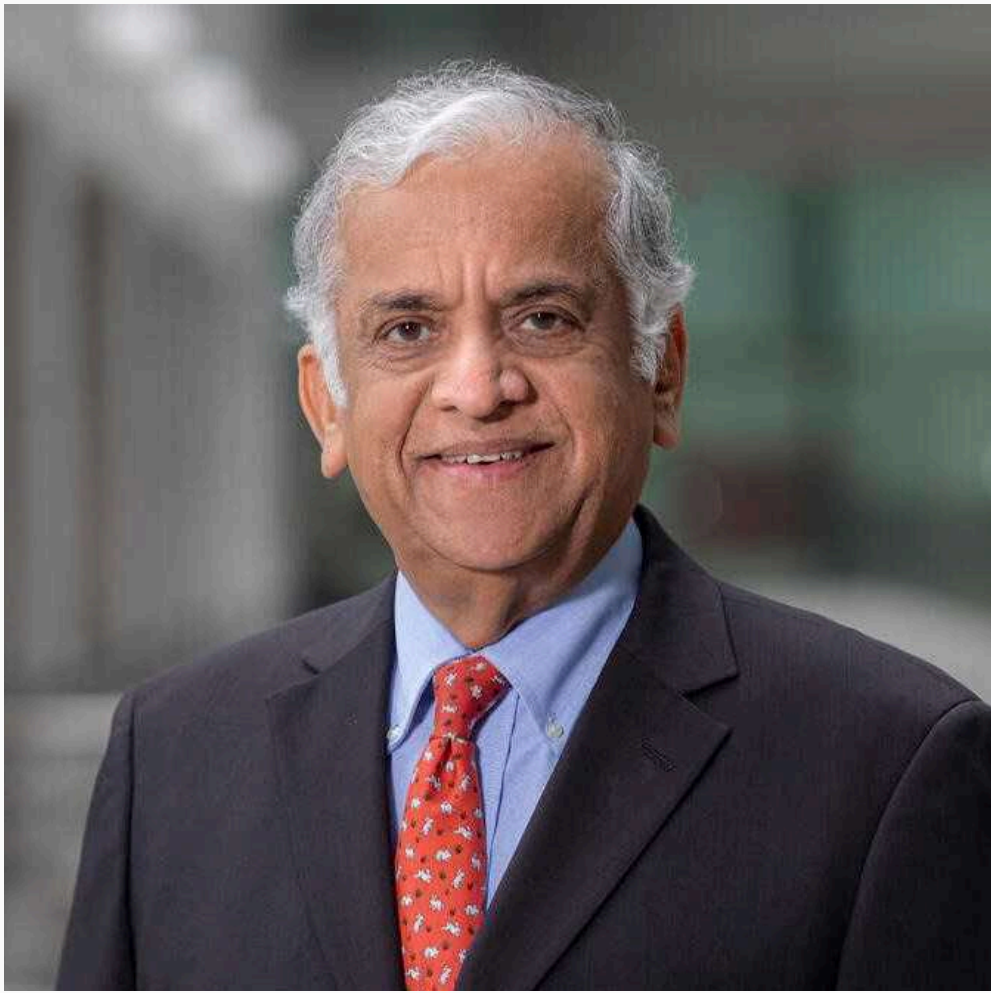
*National Chair NPMF 25
Chief Neonatology Specialist of the Ministry of Health of Uzbekistan
Head of Neonatology Department
Vice Rector for Research and Innovation Center for the Development of
Professional Qualification of Medical Workers
Tashkent, Uzbekistan*

SCIENTIFIC BOARD



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Director, Division of Neonatology
Cedars Sinai Guerin Children’s
Associate Program Director
Harbor UCLA/Cedars Sinai NPM Fellowship
Cedars Sinai Medical Center
Los Angeles, California



Dr. David Sweet, MD FRCPCH

Consultant Neonatologist
Regional Neonatal Unit
Royal Maternity Hospital, Belfast
Northern Ireland, United Kingdom

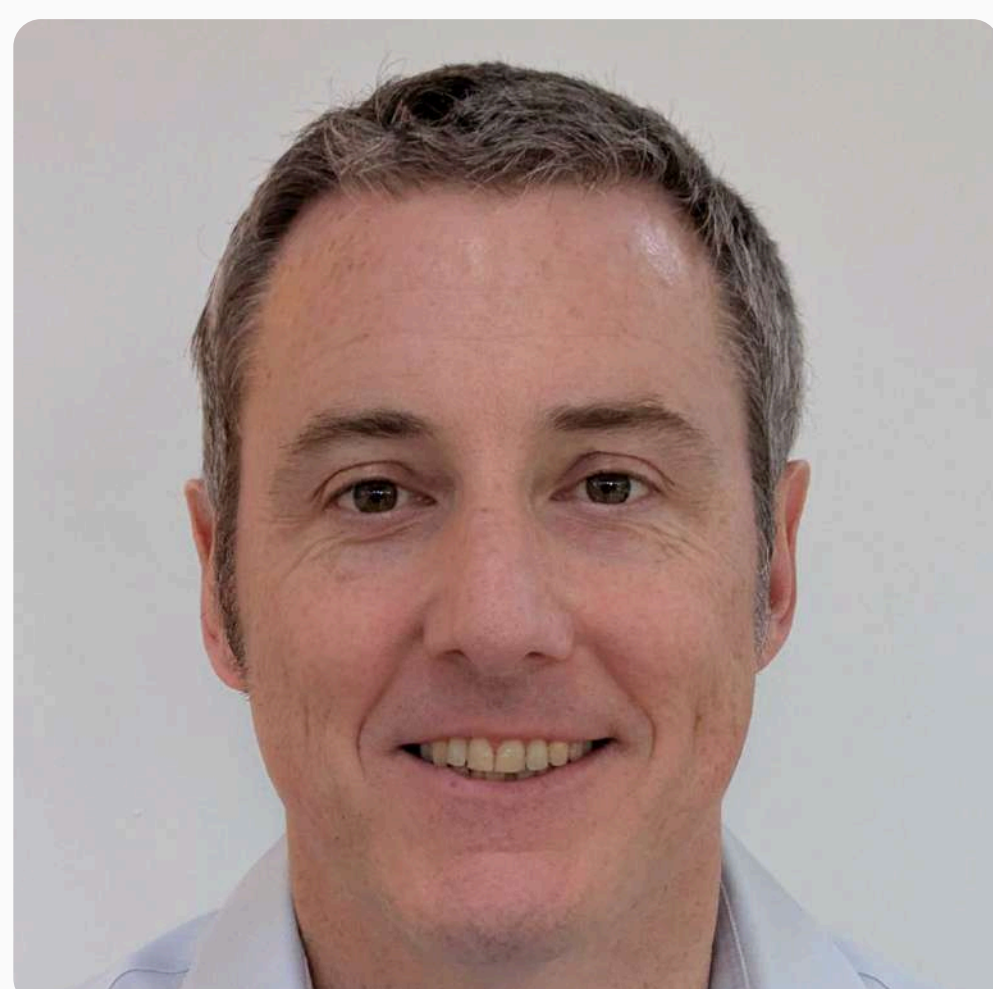


Dr. Merran Thomson, BSc MB ChB MRCP FRCPCH

Honorary Consultant Neonatologist
The Hillingdon Hospital, London
Board Member Chiesi Foundation, Italy
London, United Kingdom

**Prof. Manon Benders, MD PhD**

Professor of Neonatology
Head of Department of Neonatology
Division of Women and Babies
Wilhelmina Children's Hospital
University Medical Center in Utrecht
Utrecht, The Netherlands

**Prof. Mark Johnson, MD PhD**

Professor of Child Health and Honorary Consultant Neonatologist
Faculty of Medicine
University of Southampton and Southampton Children's Hospital
University Hospital Southampton NHS Foundation Trust
Southampton, United Kingdom

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Full Professor, Department of Neonatology
Poznan University of Medical Sciences
Poznan, Poland

**Prof. Shahab Noori, MD MS CBTI RDCS**

Professor of Pediatrics, Keck School of Medicine, USC
Administrative Director & Section Head, Clinical Research
Director, Neonatology POCUS Program, Fetal and Neonatal Institute,
Division of Neonatology, Children's Hospital Los Angeles
Los Angeles, California

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Deputy Head of the Department of Neonatology
Co-Head of the Department of Pediatric Infectious Diseases
Department of Pediatrics
Faculty of Medicine and University Hospital Cologne
Cologne, Germany

**Prof. Mario Rüdiger, MD PhD**

Director Saxonian Center for Feto-Neonatal Health at the Technical
University Dresden
Head of Department for Neonatology and Pediatric Intensive Care
Medicine
Clinic for Pediatric and Adolescence Medicine
University Clinic Dresden
Dresden, Germany



Kathi Salley-Randall, MSN CNS NNP-BC

Neonatal Clinical Nurse Specialist and Board-Certified Neonatal Nurse Practitioner

Synapse Care Solutions

Founder and Director of Education & Programs

Las Vegas, Nevada



Prof. Yogen Singh, MD MA (Cantab) FASE FRCPCH

Professor of Pediatrics, Division of Neonatology, University of California, UC Davis Children's Hospital

Director, TNE, Hemodynamics and POCUS, UC Davis Children's Hospital Chair, ESPNIC POCUS Working Group

California, USA



Assoc. Prof. Daniele Trevisanuto, MD

Associate Professor of Pediatrics

Department of Woman's and Child's Health, University Hospital of Padova

Director of the Neonatal Transport Service, Veneto Region

Padova, Italy



Alison Walker, BSc (Hons) MBChB MRCPCH MSc

Consultant Neonatologist

Regional Neonatal Unit

Royal Maternity Hospital, Belfast

Northern Ireland, United Kingdom



Dr. Nadya Yousef, MD MSc

Former Deputy Head of the NICU

Division of Pediatrics and Neonatal Critical Care

«A.Béclère» Medical Center

Paris Saclay University Hospitals, APHP

Paris, France



MARCH 21 / LECTURES

09.00 – 11.05 RESPIRATORY AND HEMODYNAMICS REGENCY BALLROOM
CHAIRER BY: RANGASAMY RAMANATHAN, NADYA YOUSEF ENGL/RU

09.00 – 09.10 **Welcome by Deputy Minister of Health**
Basitkhanova Elmira

09.10 – 09.15 **Welcome by NPMF's chair**
Katrin Klebermass-Schrehof and Umida Nasirova

09.15 – 09.45 **Strategies to Individualize Surfactant Therapy in Preterm Neonates**
Rangasamy Ramanathan

09.45 – 10.15 **Lung Ultrasound: Revolutionizing Diagnosis and Management of Neonatal Lung Diseases?**
Nadya Yousef

10.15 – 10.45 **Navigating Hypotension In Preterm Infants: Diagnosis and Management**
Shahab Noori

10.45 – 11.15 **A Physiology Based Approach to Management of Shock in Neonates**
Yogen Singh

11.15 – 11.30 **COFFEE BREAK**

11.30 – 13.30 TRANSFER, TRANSPORT AND TRANSITION REGENCY BALLROOM
CHAIRER BY: DAVID SWEET, KATRIN MEHLER ENGL/RU

11.30 – 12.00 **Benefits and Challenges of an International Cooperation**
Umida Nazirova | Mario Rüdiger

12.00 – 12.30 **Interhospital Transport of Sick Newborns**
Daniele Trevisanuto

12.30 – 13.00 **Telemedicine**
Mario Rüdiger

13.00 – 13.30 **Current Status of Delayed Cord Clamping**
Expert Panel: *Katrin Klebermass-Schrehof | Katrin Mehler*
Rangasamy Ramanathan | David Sweet

13.30 – 14.30 **LUNCH**



MARCH 21 / WORKSHOPS

14.30 – 16.30 HANDS-ON WORKSHOPS 1

REGENCY BALLROOM / [RU](#)

Insights into aEEG: Case-Based Discussions

*Katrin Klebermass-Schrehof
Kathi Salley-Randall*

BUKHARA / [RU](#)

Infection Prevention/Antibiotic Stewardship – Reducing the Burden of Late Onset (acquired) Neonatal Sepsis

*Katrin Mehler
Merran Thomson*

FERGANA / [ENGL](#)

Improving the Outcome: How to Implement a Guideline and How to Measure Success?

*Alison Walker
Boris Kramer*

SAMARKAND / [ENGL](#)

Feeding the Sick Preterm Infant

Virgilio Carnielli

16.30 – 17.00 COFFEE BREAK

17.00 – 19.00 HANDS-ON WORKSHOPS 2

REGENCY BALLROOM / [RU](#)

Case Based Discussion and Hemodynamics Assessment Using Functional Echocardiography

*Rangasamy Ramanathan
Shahab Noori*

BUKHARA / [ENGL](#)

Infection Prevention/Antibiotic Stewardship – Reducing the Burden of Late Onset (acquired) Neonatal Sepsis

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FERGANA / [RU](#)

Lung Protection for Preterm Babies – Practical Aspects

*David Sweet
Mario Rüdiger*

SAMARKAND / [ENGL](#)

A Practical Approach to Neonatal Lung Ultrasound

*Nadya Yousef
Yogen Singh*



MARCH 22 / LECTURES

09.00 – 11.00	NEUROPROTECTION - NOW AND IN THE FUTURE CHAired BY: KATRIN KLEBERMASS-SCHREHOF, MERRAN THOMSON	REGENCY BALLROOM <i>ENGL/RU</i>
09.00 – 09.30	Delivery Room Skin to Skin Contact for Preterm Infants <i>Katrin Mehler</i>	
09.30 – 10.00	Every NICU is a NeuroNICU - 5 Ways to Offer Neuro Protective Care in the NICU Every Day <i>Kathi Salley-Randall</i>	
10.00 – 10.30	Neonatal Seizures - State of the Art Review <i>Katrin Klebermass-Schrehof</i>	
10.30 – 11.00	Perinatal Stroke- Diagnosis, Prediction & Management including Stem Cells <i>Manon Benders</i>	
11.00 – 11.30	COFFEE BREAK	
11.30 – 13.30	NUTRITION, EVIDENCE AND CHANGE CHAired BY: VIRGILIO CARNIELLI, ALISON WALKER	REGENCY BALLROOM <i>ENGL/RU</i>
11.30 – 12.00	An Introduction to Change Management <i>Alison Walker</i>	
12.00 – 12.30	Parenteral Nutrition for the Newborn Infant Today - Guidelines and Personal Practice <i>Virgilio Carnielli</i>	
12.30 – 13.00	Probiotics to Prevent Neonatal Morbidity and Mortality <i>Merran Thomson</i>	
13.00 – 13.30	Evidence for Human Milk <i>Mark Johnson</i>	
13.30 – 14.30	LUNCH	



MARCH 22 / WORKSHOPS

14.30 – 16.30 HANDS-ON WORKSHOPS 3

REGENCY BALLROOM / [RU](#)

Feeding the Sick Preterm Infant

Virgilio Carnielli

BUKHARA / [ENGL](#)

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SAMARKAND / [RU](#)

A Practical Approach to Neonatal Lung Ultrasound

*Nadya Yousef
Yogen Singh*

16.30 – 17.00 COFFEE BREAK

17.00 – 19.00 HANDS-ON WORKSHOPS 4

REGENCY BALLROOM / [RU](#)

Improving the Outcome: How to Implement a Guideline and How to Measure Success?

*Alison Walker
Boris Kramer*

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Insights into aEEG: Case-Based Discussions

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FERGANA / [RU](#)

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A Practical Approach to Neonatal Lung Ultrasound

*Nadya Yousef
Yogen Singh*



MARCH 21

RESPIRATORY AND HEMODYNAMICS

09:05-09:35 REGENCY BALLROOM

STRATEGIES TO INDIVIDUALIZE SURFACTANT THERAPY IN PRETERM NEONATES

Rangasamy Ramanathan

Surfactant treatment in preterm neonates with respiratory distress syndrome has become the standard of care since the 1990s. However, indications, type of surfactant, timing and dose of surfactant is still not standardized. In this talk, I will discuss about the indications, type, timing and technique for surfactant administration.

Main focus will be:

1. FiO₂ threshold for the 1st dose of Surfactant
2. LISA vs SALSA technique
3. 100 vs 200 mg/kg/dose for the 1st dose of surfactant.

09:35-10:05 REGENCY BALLROOM

LUNG ULTRASOUND: REVOLUTIONIZING DIAGNOSIS AND MANAGEMENT OF NEONATAL LUNG DISEASES?

Nadya Yousef

The lecture will give a brief overview of the basics of neonatal lung ultrasound and discuss the lung ultrasound for the main neonatal lung diseases e.g. respiratory distress syndrome (RDS), transient tachypnea of the newborn (TTN), pneumothorax and meconium aspiration syndrome (MAS).

10:05-10:35 REGENCY BALLROOM

NAVIGATING HYPOTENSION IN PRETERM INFANTS: DIAGNOSIS AND MANAGEMENT

Shahab Noori

Although defining hypotension in preterm infants remains challenging, certain aspects of clinical characteristics and additional markers can aid in defining the threshold to treat.

A comprehensive approach that identifies the underlying pathophysiology of hypotension combined with selection and titration of cardiovascular medications with appropriate profile for the hemodynamic derangement can optimize outcomes while minimizing potential adverse effects.

10:35-11:05 REGENCY BALLROOM

A PHYSIOLOGY BASED APPROACH TO MANAGEMENT OF SHOCK IN NEONATES

Yogen Singh

In this lecture I will discuss:

- Why evaluating pathophysiology is critical in infants with shock,
- How to evaluate pathophysiology in neonatal shock,
- How to use echocardiography to target specific intervention based upon physiology



MARCH 21

TRANSFER, TRANSPORT AND TRANSITION

11:30-12:00 REGENCY BALLROOM

BENEFITS AND CHALLENGES OF AN INTERNATIONAL COOPERATION

Mario Rüdiger | Umida Nazirova

We will show the importance of having an appropriate data-base to define the need for changes and to monitor the effects. Furthermore, we will demonstrate a few examples on how an effective collaboration can take place and how both sides will benefit.

12:00-12:30 REGENCY BALLROOM

INTERHOSPITAL TRANSPORT OF SICK NEWBORNS

Daniele Trevisanuto

Centralization of high-risk deliveries in tertiary neonatal care facilities is crucial to decrease neonatal morbidity and mortality. Although maternal antenatal transfer is the preferred option when specialized neonatal care is expected, about 1 % infants inevitably need urgent transport to a tertiary neonatal care facility after birth.

This talk aims to present the most important steps of neonatal stabilization before and during the transport and describe the experience of the Neonatal Veneto Region Transport Service in the last 25 years.

12:30-13:00 REGENCY BALLROOM

TELEMEDICINE

Mario Rüdiger

A collaborative network of birth and perinatal centres is presented. The advantages of using telemedicine for expertise transfer is demonstrated and the current scientific evidence is discussed.

13:00-13:30 REGENCY BALLROOM

CURRENT STATUS OF DELAYED CORD CLAMPING

Expert Panel: Katrin Klebermass-Schrehof | Katrin Mehler | Rangasamy Ramanathan | David Sweet

This expert panel discussion explores the current evidence and clinical experiences surrounding delayed cord clamping (DCC) in neonates. The conversation highlights the physiological benefits of DCC but also discuss the implementation challenges, such as timing, balancing maternal and neonatal safety, and integrating DCC with immediate resuscitation needs in high-risk cases.

The session also debates the need for standardized guidelines and tailored approaches to account for diverse clinical settings and resource limitations.



MARCH 22

NEUROPROTECTION – NOW AND IN THE FUTURE

09:00-09:30 REGENCY BALLROOM

DELIVERY ROOM SKIN TO SKIN CONTACT FOR PRETERM INFANTS

Katrin Mehler

Separation of mothers and their preterm infants is still the standard of care in most countries. However, there is a growing body of evidence that promoting skin-to-skin contact (SSC) of the mother and her newborn infant directly after birth has multiple benefits. In middle and low resource countries, early SSC is associated with decreased mortality and morbidity. In high resource settings, early SSC facilitates cardiorespiratory stabilization in moderate and late preterm infants and improves quality mother infant interaction in very preterm infants.

09:30-10:00 REGENCY BALLROOM

EVERY NICU IS A NEURO NICU – 5 WAYS TO OFFER NEURO PROTECTIVE CARE IN THE NICU EVERY DAY

Kathi Salley-Randall

NeuroNICU's are a growing trend around the globe and yet their implementation and scope of practice is highly variable. In this presentation, Kathi Randall will share her experience helping NICU's around the globe to integrate the 4 pillars of Neuro-Intensive Care into their practice. A cornerstone of any Neuro NICU is neuroprotective and neurodevelopmental support, and there are many simple practices you can integrate in to your daily practice to support families, babies, and their rapidly developing brain. You will leave this presentation with the tools to turn any NICU into a Neuro NICU.

Objective 1: List the 4 domains of a Neuro NICU Practice

Objective 2: Provide one example of a neuroprotective practice that you can incorporate in to your daily practice.

10:00-10:30 REGENCY BALLROOM

NEONATAL SEIZURES – STATE OF THE ART REVIEW

Katrin Klebermass-Schrehof

This state-of-the-art review lecture provides an up-to-date overview on neonatal seizures, covering pathophysiology, advanced diagnostic tools (EEG/aEEG) and current therapeutic strategies, including precision medicine approaches. It highlights the impact of seizures on long-term neurodevelopmental outcomes and explores emerging technologies like Artificial Intelligence (AI) for diagnosis and genetic analysis for providing individualized therapies. The lecture aims to bridge research and clinical practice, offering insights for optimizing neonatal care.



MARCH 22

NEUROPROTECTION – NOW AND IN THE FUTURE

10:30-11:00 REGENCY BALLROOM

PERINATAL STROKE- DIAGNOSIS, PREDICTION & MANAGEMENT INCLUDING STEM CELLS

Manon Benders

Perinatal arterial ischemic stroke (PAIS) is a rare but significant cause of neonatal brain injury, occurring in approximately 1 in 2300 to 1 in 5000 live births. This presentation will address the incidence, diagnosis, early outcome prediction, and treatment strategies for PAIS.

PAIS typically occurs around the time of birth, with multifactorial risk factors. Timely diagnosis is crucial, with unilateral neonatal seizures often being the first clinical indicator. MRI, particularly with diffusion-weighted imaging, is the gold standard for detecting ischemic injury and determining the affected brain regions. Predicting long-term outcomes in neonates with PAIS is challenging. MRI, cranial ultrasound and aEEG offer valuable tools for assessing the risk of motor, cognitive, and behavioral deficits.

Current management focuses on supportive care, including seizure control and prevention of complications. Emerging therapies, such as neuroprotective hypothermia and regenerative approaches like mesenchymal stromal cells (MSCs), show promise in preclinical and early clinical studies. These interventions aim to reduce brain injury and improve neurodevelopmental outcomes but require further investigation in clinical trials.

In summary, advances in imaging, biomarker research, and novel therapies offer hope for improved diagnosis, prognosis, and treatment, potentially transforming outcomes for affected neonates.



MARCH 22

NUTRITION, EVIDENCE AND CHANGE

11:30-12:00 REGENCY BALLROOM

AN INTRODUCTION TO CHANGE MANAGEMENT

Alison Walker

The talk will cover 3 main sections, namely:

- What is Change Management?
- Why is change so hard?
- How do lead effective change.

12:00-12:30 REGENCY BALLROOM

PARENTERAL NUTRITION FOR THE NEWBORN INFANT TODAY - GUIDELINES AND PERSONAL PRACTICE

Virgilio Carnielli

The talk will cover

- a) Indications for Parenteral Nutrition (PN) of the sick newborn infant,
- b) Which kind of PN is to be preferred
- c) Recent Parenteral Nutrition Guidelines will be illustrated highlighting strengths and weakness and finally
- d) Some examples will be given on how to adjust local practice to current guidelines.

12:30-13:00 REGENCY BALLROOM

PROBIOTICS TO PREVENT NEONATAL MORBIDITY AND MORTALITY

Merran Thomson

The lecture explores the potential role of probiotics in reducing health risks among preterm infants. We will discuss clinical trials, the safety and efficacy of different probiotic strains, and challenges related to standardization and regulation.

- Should we be using probiotics?
- If yes, what could be the benefits and risks?
- Which babies to treat / supplement and for how long?
- What to use?

13:00-13:30 REGENCY BALLROOM

EVIDENCE FOR HUMAN MILK

Mark Johnson

Human breast milk remains the best milk for all infants, including those born preterm. For preterm infants, use of human milk is associated with reduced risk of necrotising enterocolitis and improvements in longer term neurodevelopmental and cardiovascular outcomes. However, human milk does not contain sufficient nutrients to allow preterm infants to grow at the same rate they might in utero, so often requires the addition of fortifiers or supplements to address this and help infants grow.

The evidence and rationale for the benefits of human milk will be discussed in this lecture, together with strategies for using it to feed preterm infants to help achieve optimum growth.



INSIGHTS INTO AEEG: CASE-BASED DISCUSSIONS

Katrin Klebermass-Schrehof | Kathi Salley-Randall

REGENCY BALLROOM / BUKHARA

This interactive workshop focuses on the application and interpretation of amplitude-integrated EEG (aEEG) in neonatal care through case-based discussions. Participants engage in hands-on analysis of real-world cases to deepen their understanding of aEEG patterns, from normal tracings to pathological findings such as seizures, hypoxic-ischemic encephalopathy, and encephalopathies of other origins.

Facilitated by experts, the workshop emphasizes the clinical decision-making process, discussing how aEEG findings guide interventions and improve outcomes. Attendees are encouraged to share experiences and challenges, fostering collaborative problem-solving and practical insights into integrating aEEG into daily clinical practice. The session aims to enhance participants' confidence in using aEEG for both routine monitoring and critical neonatal scenarios.

INFECTION PREVENTION/ANTIBIOTIC STEWARDSHIP – REDUCING THE BURDEN OF LATE ONSET (ACQUIRED) NEONATAL SEPSIS

Katrin Mehler | Merran Thomson

BUKHARA

Late onset neonatal sepsis (LOS) can lead to death and negatively impacts a range of long-term outcomes including neurodevelopment, respiratory function (BPD) and vision (ROP). The risks of LOS and its associated adverse outcomes are reduced in NICUs where good infection prevention and antibiotic stewardship practices have been embedded into all aspects of neonatal care.

This interacted workshop will include a number of cases discussions. Participants will learn the key components of a LOS reduction program and how to implement change within their own NICU.

IMPROVING THE OUTCOME: HOW TO IMPLEMENT A GUIDELINE AND HOW TO MEASURE SUCCESS?

Alison Walker | Boris Kramer

REGENCY BALLROOM / FERGANA

We will ask the participants to report their experience in writing, applying, and clinically implementing quality improvements and guidelines.

We will discuss the set up, execution, strengths and weaknesses of quality improvements.

We will show examples of quality improvement and assessing the outcomes after interventions.

FEEDING THE SICK PRETERM INFANT

Virgilio Carnielli

SAMARKAND / REGENCY BALLROOM

The workshop will involve all participants in the decision processes of selecting the best nutrition for each infant and in several clinical scenarios including

a) extreme prematurity b) sickness c) hemodynamically significant patent ductus arteriosus d) sepsis-shock, e) feeding intolerance, gastrointestinal surgery f) cholestasis g) heart failure and others. Clinical cases will be presented addressing these conditions and this will offer ample opportunities to discuss different approaches on effective nutrition delivery.



CASE BASED DISCUSSION AND HEMODYNAMICS ASSESSMENT USING FUNCTIONAL ECHOCARDIOGRAPHY

Rangasamy Ramanathan | Shahab Noori

REGENCY BALLROOM / BUKHARA

Learning Objectives:

1. Know the focused standard echocardiographic views required for rapid assessment of shock and hemodynamics significance of PDA
2. Able to rapidly assess cardiac function on eyeballing and semi-quantitative assessment - distinguish normal from grossly reduced myocardial contractility, and to guide fluid versus inotropic therapy
3. Able to assess IVC collapsibility, left ventricular cardiac output (LVO) and left ventricle fraction shortening (%FS)
4. Able to assess PDA size, shunt and determine the shunt pattern
5. Able to assess the hemodynamic significance by evaluating LA/Ao ratio, and flow reversal in the descending aorta, superior mesenteric artery and celiac artery

LUNG PROTECTION FOR PRETERM BABIES – PRACTICAL ASPECTS

David Sweet | Mario Rüdiger

FERGANA

The workshop will be a combination of lecturing and simulation consisting of 2 parts:

1. Respiratory Management in the delivery room

- Focusing on early strategies for lung protection by keeping babies breathing on non-invasive support
- Covering the Vienna/ Cologne bundle for delivery room care
- Timing of surfactant therapy

2. Lung protection in the NICU

- Pros and cons of various modes of invasive ventilation including HFOV and volume targeted ventilation
- Various modes of non-invasive respiratory support – CPAP, NIPPV, NAVA
- Strategies to avoid or minimise duration of ventilation – Caffeine etc.

A PRACTICAL APPROACH TO NEONATAL LUNG ULTRASOUND

Nadya Yousef | Yogen Singh

SAMARKAND

The objective of this workshop is to give a brief introduction to the basics of neonatal lung ultrasound.

- During this interactive workshop you will learn about:
- How to identify the pleural line and the most important lung artifacts
- How to identify lung edema, consolidation and pleural effusion
- How to rule out pneumothorax
- Ultrasound patterns of respiratory distress syndrome and transient tachypnea of the newborn.



SPONSORS



CONTACTS

LIMARE LLC

VSG Siyana south, Svety vlas street 8256 Burgas

+359 88 249 6363

registration@nmpf.org

