

# Atraumatic lumbar puncture Workshop

**Dive deeper into Atraumatic lumbar puncture and get hand-on experience in this workshop running in parallel to the Congress sessions on 18 October.**

Space is limited, pre-registration and payment is required in order to secure your ticket. Workshop registration works on a 'first come, first serve basis'. Registration is available through the [registration page](#). For any queries please contact [reg\\_eaps24@kenes.com](mailto:reg_eaps24@kenes.com).

The detailed programme of the workshop is available below:

Workshop Name	Date	Time	Location	Early Registration Fee	Onsite Registration Fee
<a href="#">Workshop 02: Atraumatic lumbar puncture</a>	October 18, 2024	Select 1 slot from: 14:30-15:15/ 15:15-16:00/ 16:30-17:15	Congress Venue	€60	€75

\*The European School of Neonatology (ESN) is the educational arm of the European Society for Paediatric Research in Neonatology.

## Eligibility

ESN pre-congress courses are open to any medical professional who supports the aims of the European Society for Paediatric Research (ESPR).

## ECTS points

Trainees of the ESN pre-congress courses receive European Credit Transfer and Accumulation System (ECTS) points for their participation:

- Half-day course: 0.25 ECTS points.
- 1-day course: 0.5 ECTS points.
- 2-day course: 1 ECTS point.

At the end of the congress, you will be rewarded with a course certificate. All ECTS points accumulated through attending ESN educational offers or by attending courses from partner organisations can be counted towards obtaining a degree from the ESN, such as the Master of Advanced Studies (MAS) in Neonatology.

## **About the ESN**

The European School of Neonatology (ESN) equips medical professionals with the necessary knowledge, skills, competences, and attitudes required to practise high-quality neonatal medicine tailored to their local clinical setting. Taking into account principles of evidence-based medicine, ESN programming joins theory and practice so that medical professionals can effectively practise Neonatology at all levels of care. Amongst the ESN offers are a Master of Advanced Studies (MAS) in Neonatology, a Master of Science (MSc) in Neonatology, Special Courses and Training, and the free Lecture series 'Perspectives on Effective Neonatology'. To find out more about the ESN, [click here](#). [Click here](#) to download the programme

09:00 – 09:10 Time for revolution in neonatal vascular access  
*Fiammetta Piersigilli, Belgium*

09:10 – 09:40 The many uses of ultrasound in neonatal vascular

*Robin Van der Lee, Netherlands*

09:40 – 10:00 Visualization of superficial veins in neonates (RaSuVA protocol and NIR technology) and insertion of epicutaneo-cava catheters

*Vito D'andrea, Italy*

10:00 – 10:20 Insertion of umbilical venous catheters

*Giovanni Barone, Italy*

10:20 – 10:40 Ultrasound guided central catheters (CICCs and FICCs) in neonates

*Mauro Pittiruti, Italy*

10:30 – 11:00 Coffee break

11:00 – 11:20 Securement of the catheter and protection of the exit site: cyanoacrylate glue and transparent membranes

*Roland Van Rens, Netherlands*

11:20 – 11:40 Technique of intraosseous access in neonates

*Bernhard Schwabegger, Austria*

11:40 – 12:00 Prevention of central line associated blood stream infections –

*Fiammetta Piersigilli, Belgium*

12:00 – 12:20 Open discussion / Q&A

12:20 – 13:00 Videos / discussion / Q&A

13:00 – 14:00 Lunch break

14:00-15:30

Hands on practice:

Skill station 1 – Ultrasound visualization of superficial and deep veins and echocardiography for tip location (on volunteers)

*Fiammetta Piersigilli, Belgium; Giovanni Barone, Italy*

Skill station 2 – Techniques of ultrasound guided venipuncture (on simulator)

*Robin Van der Lee, Netherlands; Anna Milan, UK*

Skill station 3 – Techniques for catheter securement and protection of the exit site (on simulator)

15:30 – 17:00 Continuation of hands on practice

*Vito D'andrea, Italy; Roland Van Rens, Netherlands; Bernhard Schwabegger, Austria* **Goals:**

- To introduce Neonatologist Performed Echocardiography, both theoretically (lectures) and practically (hands-on)
- To discuss the use of NPE for the assessment of several causes of neonatal haemodynamic failure

09:00 Welcome

*Eirik Nestaas, Norway*

09:10 How to get good images

*Samir Gupta, UK*

09:30 Routine Ultrasound Views

*Eirik Nestaas, Norway*

10:10      Review "Use of NPE in our clinic – clinical context"

*Eugene Dempsey, Ireland*

10:40      Coffee break

11:10      Assessment of PDA

*Silvia Martini, Italy*

11:40      Assessment of PPHN

*Kasper Jacobsen Kyng, Denmark*

12:10      Assessment of Neonatal Shock

*Holger Michel, Germany*

12:40      Lunch break

13:30      Hands-on Sessions\*

16:15      Wrap-up

*Kasper Jacobsen Kyng, Denmark & Silvia Martini, Italy*

16:30      End

\*Hands-on Sessions – There will be multiple stations during the hands-on sessions in the afternoon, so echocardiography can be practiced in smaller groups allowing hands-on experience for everyone (both on simulator and volunteers, i.e. healthy children). 08:30 – 08:40      Welcome

## **INTERACTIVE DISCUSSION**

08:40 – 09:00      Q&A with audience on expectations and sessions pre-congress course

## **CARE OF THE MICROPREEMIE**

09:00– 09:20      Birth of the micropreemie: Delivery room management

09:20 – 09:30      Discussion

09:30 – 09:50      Intensive care of the micropreemie: An immature science

09:50 – 10:00      Discussion

## **PROTECTING THE MICROPREEMIE**

10:00 – 10:20      What is new in brain therapeutics for

extremely preterm neonates

10:20 – 10:30 Discussion

10:30-11:00 Coffee break

11:00 – 11:20 What is new in infection prevention in extremely preterm neonates

11:20 – 11:30 Discussion

### **INTERACTIVE DISCUSSION**

11:30 – 12:00 Q&A with audience on expectations and sessions pre-congress course

### **PHARMACOTHERAPY OF THE MICROPREEMIE**

12:00 – 12:20 From immature pharmacotherapy towards pharmacotherapy of the immature

12:20 – 12:30 Discussion

12:30 – 13:30 Lunch break

13:30 – 13:50 Steroids for the extreme preterm neonate

13:50– 14:00 Discussion

14:00– 14:20 How to optimally use respiratory stimulating drugs in extreme preterm neonates?

14:20 – 14:30 Discussion

14:30 – 14:50 Update on hemodynamic pharmacotherapy of the extreme preterm neonate

14:50 – 15:00 Discussion

### **INTERACTIVE DISCUSSION**

15:00 – 15:30 Interactive discussion with audience

## **WRAP UP AND LESSONS LEARNED**

15:30 – 16:00      Wrap up and lessons learned presented by experts  
Cranial ultrasound is the most widely used neuroimaging tool to study the newborn brain. Traditionally, its main role was to detect major brain lesions in preterm infants, such as intraventricular hemorrhage and its complications and cystic white matter injury. However, the quality of both the ultrasound equipment and technique has improved considerably over time. This provides new possibilities, for the recognition of other forms of brain lesions, for treatment and for outcome prediction. On the other hand cranial ultrasound still has its limitations and in some cases other types of imaging may be preferred.

This workshop focusses on the role of cranial ultrasound for the main neurologic conditions present in the neonatal intensive care unit and focusses on the “how, why, when and what” questions. It brings also many examples and room for interactive discussions.

Programme:

09:00 – 09:15 Welcome and registration

09:15 – 09:35 How to come to an optimal CUS protocol in your NICU

*Jeroen Dudink, Netherlands*

09:35 – 09:40 Discussion

09:40 – 10:00 Why perform Doppler ultrasound; technical and clinical aspects

*Sandra Horsch, Germany*

10:00 – 10:05 Discussion

10:05 – 10:25 When to intervene; CUS in IVH and PHVD

*Mayka Bravo, Spain*

10:25 – 10:30 Discussion

10:30 – 11:00 Coffee break

10:00 – 11:20 How to image the posterior fossa

*Sylke Steggerda, Netherlands*

11:20 – 11:25 Discussion

11:25 – 11:45 What to expect from ultrasound in brain infections

*Ana Alarcon Allen, Spain*

11:45 – 11:50 Discussion

11:50 – 12:00 Interactive case discussion

13:00 – 14:00 Lunch break

14:00 – 14:20 Why perform ultrasound in HIE, when you also do MRI

*Isabel Benavente, Spain*

14:20 – 14:25 Discussion

14:25 – 15:30 Interactive case discussion

15:30 – 16:00 What do we tell parents; CUS and outcome prediction – Panel discussion

16:00 – 16:20 QUIZ, show your CUS knowledge and win a prize

16:20 – 16:30 Closing remarks and good bye  
Participants will experience two different emergency scenarios within a high-fidelity simulated neonatal resuscitation or intensive care unit setting. Scenarios will be debriefed afterwards to discuss learning objectives and to reflect on trainees' performance. Necessary qualification to attend this workshop is basic knowledge about neonatal life support.

**Learning goals:** Advanced Neonatal Life Support, Human Factors, Non-Technical Skills, Set-up of high-fidelity simulation-based training

09:00-09:30 – Introduction to simulation-based training / Familiarisation

09:30 – 10:30 – Simulation + Debriefing Case 1

10:30 – 10:45 – Break

10:45 – 11:45 – Simulation + Debriefing Case 2

11:45 – 12:00 – Summary and Discussion

**Instructors:**

Lorenz Sommer, Austria

Hannah Schwarz, Austria

Katharina Bibl, Austria

Marije Hogeveen, Netherlands

Tomasz Szczapa, Poland

Lukas Miledner, Austria

Michael Wagner,

Austria[accordion\_father][[/accordion\_father]Participants can  
select one of 3 slots to attend:

14:40-15:15

15:15-16:00

16:30-17:15

**Faculty: Annemie Bauters, Belgium**