

European School of Neonatology (ESN) Pre-congress Course at jENS 2023

Tuesday, 19 September 2023, 09:00 - 17:00 CEST

ESPR section name:

ESPR Brain, Development and Imaging

Chair(s):

Neil Marlow, James Boardman, Deirdre Murray

Main theme:

A new look at outcome

ECTS points:

0.5

Course description:

In this one-day course we will bring together experts in the field of developmental assessment. We will present evidence for the use of new approaches to measuring cognitive development. Our speakers will propose ways in which we can quantify heterogeneous outcomes, where behaviour and cognitive difficulties co-exist. Integration of socio-economic determinants of a child's development and later cognitive ability will also be examined. The afternoon session will be open to a smaller number of participants to allow hands-on workshops where participants will get to see and trial novel assessment methods for quantifying cognitive and motor development. We will also incorporate methods suitable for widespread use in low resource settings.

Course objectives:

- To present current evidence on what influences the outcome of the high-risk child.
- To highlight developments in the field of outcome and new techniques for assessment of outcome.
- To build discussion on what we should be measuring: beyond developmental milestones.

Course programme:

Time		Topic	Speaker
Start	End		
09.00	09.30	What are we trying to measure?	Neil Marlow
09.30	10.00	Risk prediction to guide targeted intervention and follow up	Deirdre Murray
10.00	10.30	The social environment of children: how it shapes mental health and cognition	Louise Arseneault
10.30	10.45	Coffee break	
10.45	11.15	Harnessing neuroplasticity to improve outcome in high risk infants	Andrea Guzzetta
11.15	11.45	Transdiagnostic approaches to classifying outcome	Chiara Nosarti
11.45	12.15	Socioeconomic effects on outcomes after perinatal brain injury: measurement and mechanisms	James Boardman
12.15	13.15	Lunch break	
13.15	13.45	The development of self-regulation, cognitive control, and executive function	Nic Chevalier
13.45	14.15	Follow-up in under resourced settings	Cally Tann
14.15	14.45	Panel discussion	
14.45	15.00	Break	

15.00	17.00	<p>Hands-on workshops*:</p> <ul style="list-style-type: none"> • fNIRS and eye-tracking • EF testing: novel techniques workshop • CogniTOT • MAIJU wearable for infant's motor 	<p>Nic Chevalier Cally Tann Deirdre Murray Sampsa Vanhatalo</p>
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***Hands-on workshops:**

Each will include a 5–10 minute introduction from the speaker on the topic, followed by hands-on time with the equipment and time for questions and discussion. Attendees will rotate in groups of 8 through the four following workshops: 30 minutes at each station.

Faculty:

Name	Country
Neil Marlow	United Kingdom
Deirdre Murray	Ireland
Louise Arsenaault	United Kingdom
Andrea Guzzetta	Italy
Chiara Nosarti	United Kingdom
James Boardman	United Kingdom
Nic Chevalier	United Kingdom
Cally Tann	United Kingdom
Nic Chevalier	United Kingdom
Sampsa Vanhatalo	Finland