

Neonatal Cranial Ultrasound 2020

Programme

Date | 18-20 March 2020 (Basics day 1, Advanced days 2-3)

Location | W12 Conferences, Hammersmith Hospital, Du Cane Road, London, W12 0HS

Audience | Neonatologists, neonatal fellows, paediatricians, radiologists and sonographers

Wednesday 18 March

THE BASICS led by Professor Frances Cowan and Dr Gerda van Wezel-Meijler

Learning aims: This one-day course of illustrated lectures is aimed at those starting out on their neonatal imaging career. The content will cover all aspects of neonatal cranial imaging at a basic level. It will also serve as a great foundation for those also following the Advanced course.

Demonstration of state-of-the-art neonatal head ultrasound simulators and the opportunity during the course for hands-on point of care simulation-based ultrasound experience with small group workshops.

08:45	Registration and coffee
09.10	Welcome and introduction
09:15	Basic and normal anatomy
10:15	Use of the ultrasound machine and understanding of the function of the controls and probes
10:45	Tea and coffee break
11:15	Cranial ultrasound in the term infant admitted with early neurological symptoms – HIE and stroke
12:00	Demonstration of cranial ultrasound scanning model
12:30	Lunch Optional hands-on scanning workshop (supplementary charge)
13:30	Ultrasound imaging of preterm brain injury
14:15	Term infants with later seizure onset/less acute problems
14:45	Tea and coffee break
15:15	Doppler blood velocity measurements
15:45	Cases and discussion about practical difficulties and reporting
16:30	End of day 1
16:45 -17:45	Optional hands-on scanning workshop (supplementary charge)

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Thursday 19 March

ADVANCED COURSE led by **Professor Frances Cowan** and **Professor Linda de Vries**

Learning aims: These two days of illustrated lectures cover a wide range of problems seen on neonatal brain ultrasound examinations. It is designed for clinicians with some experience of neonatal cranial ultrasound, who want to be updated on what can be achieved with cranial ultrasound, in terms of diagnosis and prognosis.

08:45	<i>Registration and coffee</i>
09:00	How to scan a baby: standard cranial ultrasound examination and how to use supplemental acoustic windows
09:45	MRI in neonatal brain imaging (tbc)
10:25	<i>Tea and coffee break</i>
10:45	Ultrasound imaging of brain maturation: normal findings versus pathological changes
11:30	Preterm: haemorrhage, PHVD and outcome
12:30	<i>Lunch</i> Optional hands-on scanning workshop (supplementary charge)
13:30	The neonatal cerebellum: normal development and injury
14:10	Preterm: white matter injury
15:10	<i>Tea and coffee break</i>
15:30	Metabolic disease, tumours and neurocutaneous disorders
16:10	Review of day and quiz
16:30	<i>End of day 2</i>
16:45 -17:45	Optional hands-on scanning workshop (supplementary charge)

The hands on simulation sessions are delivered in collaboration with the Sonographic Clinical Assessment of the Newborn (SCAN) and Neonatal Neuro-Critical Care (NNCC) programs from the University of Calgary, Canada

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Friday 20 March

ADVANCED COURSE led by **Professor Frances Cowan** and **Professor Linda de Vries**

08:45	<i>Registration and coffee</i>
09:00	Assessing asphyxial damage in the term infant
09:45	Congenital abnormalities
10:30	<i>Tea and coffee break</i>
10:50	Term focal lesions
11:25	Sinus venous thrombosis and associated lesions
12:10	Doppler measurements of CBFV: how to do and when to use
12:50	<i>Lunch</i>
13:50	Infections
14:35	Protocols for imaging preterm infants of different gestational ages, term infants with HIE, fits, dysmorphisms, floppiness
15:05	<i>Tea and coffee break</i>
15:30	Discussion session: <i>Delegates, please bring examples of your own ultrasound imaging cases you found interesting and would like to discuss</i>
16:00	Quiz of image interpretation, appropriate action, what to tell parents about scan findings
16:45	<i>End of course</i>

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Speakers

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