

Neonatal Cranial Ultrasound 2019

Programme

Date | 27-29 March 2019 (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 27 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 (Dr Gerda van Wezel-Meijler)
10:15	Use of the ultrasound machine and understanding of the function of the controls and probes (Dr Gerda van Wezel-Meijler)
10:45	Tea and coffee break
11:15	Cranial ultrasound in the term infant admitted with early neurological symptoms – HIE and stroke (Dr Sylke Steggerda)
12:00	Demonstration of cranial ultrasound scanning model (Dr Lara Leijser)
12:30	Lunch Optional hands-on scanning workshop or case discussion groups
14:00	Ultrasound imaging of preterm brain injury (Dr Gerda van Wezel-Meijler)
14:45	Term infants with later seizure onset/less acute problems (Prof Frances Cowan)
15:15	Tea and coffee break
15:45	Doppler blood velocity measurements (Prof Frances Cowan)
16:15	Cases and discussion about practical difficulties and reporting (Dr Gerda van Wezel-Meijler and Prof Frances Cowan)
17:00	End of day 1
17:00 -1830	Optional hands-on scanning workshop

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Thursday 28 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	Registration and coffee
09:00	How to scan a baby: standard cranial ultrasound examination and how to use supplemental acoustic windows (Dr Gerda van Wezel-Meijler)
09:45	MRI in neonatal brain imaging (Prof Serena Counsell)
10:25	Tea and coffee break
10:45	Ultrasound imaging of brain maturation: normal findings versus pathological changes (Dr Gerda van Wezel-Meijler)
11:30	Preterm: haemorrhage, PHVD and outcome (Prof Linda de Vries)
12:30	Lunch Optional hands-on scanning workshop or case discussion groups (Basics registrants only)
14:00	The neonatal cerebellum: normal development and injury (Dr Sylke Steggerda)
14:40	Preterm: white matter injury (Prof Linda de Vries)
15:40	Tea and coffee break
16:00	Metabolic disease, tumours and neurocutaneous disorders (Prof Frances Cowan)
16:40	Review of day and quiz (Prof Linda de Vries and Prof Frances Cowan)
	End of day 2
17:00 -1830	Optional hands-on scanning workshop (Basics registrants only)

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 29 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 (<i>Prof Frances Cowan</i>)
09:45	Congenital abnormalities (<i>Prof Linda de Vries</i>)
10:30	<i>Tea and coffee break</i>
10:50	Term focal lesions (<i>Prof Frances Cowan</i>)
11:25	Sinus venous thrombosis and associated lesions (<i>Prof Linda de Vries</i>)
12:10	Doppler measurements of CBFV: how to do and when to use (<i>Prof Frances Cowan</i>)
12:50	<i>Lunch</i>
13:50	Infections (<i>Prof Linda de Vries</i>)
14:35	Protocols for imaging preterm infants of different gestational ages, term infants with HIE, fits, dysmorphisms, floppiness (<i>Prof Frances Cowan</i>)
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> (<i>Prof Linda de Vries and Prof Frances Cowan</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

Professor Frances M Cowan

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Professor Linda S de Vries

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Dr Gerda van Wezel-Meijler

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Professor Serena Counsell

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Dr Sylke Steggerda

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Dr Lara M Leijser

Pediatrician – Neonatologist
Assistant Professor
Cumming School of Medicine and Alberta
Children's Research Institute
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Dr Khorshid Mohammad

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