

## NEONATAL CRANIAL ULTRASOUND

W12 Conferences, Hammersmith Hospital, London W12

Delegates may choose to attend the Basics Course (1 day - £190), the Advanced Course (2 days - £360) or all 3 days (£495).

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

*This one-day course of illustrated lectures is aimed at those who are 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.*

### **Wednesday, 27 March 2019**

- 09:00 Registration and coffee
- 09:30 **Basic normal and abnormal anatomy**
- 10:30 **Use of the ultrasound machine** and understanding of the function of the controls and probes
- 11:00 *Coffee*
- 11:30 **Cranial ultrasound in the term infant** admitted with early neurological symptoms – HIE and stroke
- 12:15 **Cases** – images and diagnosis
- 13:00 *Lunch*
- 13:45 **Ultrasound imaging of preterm brain injury**
- 14:30 **Term infants with later seizure onset / less acute problems**
- 15:00 *Tea*
- 15:30 **Doppler blood velocity measurements**
- 16:00 **More cases** and discussion about practical difficulties and reporting
- 17:15 *End of day*

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

*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.*

### **Thursday 28 March 2019**

- 09:00 *Registration and coffee*
- 09:30 **How to scan a baby:** standard cranial ultrasound examination and how to use supplemental acoustic windows
- 10:15 **MRI in neonatal brain imaging**
- 10:55 *Coffee*
- 11:25 **Ultrasound imaging of brain maturation:** normal findings versus pathological changes
- 12:10 **Preterm:** haemorrhage, PHVD and outcome
- 13:10 *Lunch*
- 14:00 **The neonatal cerebellum:** normal development and injury

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- 14:40 **Preterm: white matter injury**
- 15:40 *Tea*
- 16:00 **Metabolic disease.** Tumours / Neurocutaneous disorders
- 16:40 Review of day and quiz
- 17:00 *End of day*

### Friday 29 March 2019

- 08:45 *Registration and coffee*
- 09:00 **Assessing asphyxial damage** in the term infant
- 09:45 **Congenital abnormalities**
- 10:30 *Coffee*
- 11:00 **Term focal lesions**
- 11:35 **Sinus venous thrombosis** and associated lesions
- 12:20 **Doppler measurements of CBFV**; how to do and when to use
- 13:00 *Lunch*
- 13:45 Infections
- 14:30 **Protocols** for imaging preterm infants of different gestational ages, term infants with HIE, fits, dysmorphisms, floppiness
- 15:00 *Tea*
- 15:25 **Discussion session: Delegates please bring examples of your own ultrasound imaging cases you found interesting and would like to discuss**
- 15:50 **Assessment** - quiz of image interpretation, appropriate action and what to tell parents about scan finding
- 16:30 *End of course*