Exploring the fetal brain: imaging, prognosis and counselling

Sunday 12th May, 2024
Livestream program
Part of a Blended learning program

Learning Objectives:

- Gain expertise in basic and advance assessment of fetal brain
- Improve your knowledge of central nervous system anomalies
- Become familiar with the imaging techniques of fetal brain assessment (ultrasound and MRI)
- Engage with an international panel of experts on topics such as peculiar posterior fossa, cortical anomalies, infections
- View complex clinical cases in fetal neurology
- Hear more about how to counsel women with fetal brain anomalies
- Discover new approaches to identify foetuses at risk of adverse neurodevelopmental outcome
- Learn how to identify subtle central nervous system anomalies

Prof. Francesco D'Antonio (Italy)
PROFESSOR OF MATERNAL FETAL MEDICINE AT UNIVERSITÀ DEGLI STUDI 'GABRIELE D'ANNUNZIO' DI CHIETI

Prof. Asma Khalil (UK)
ISUOG TRUSTEE, HONORARY TREASURER

Prof. Simon Meagher (Australia)
ISUOG TRUSTEE; COURSES SUB-COMMITTEE CHAIR

Time BST	Mins	SESSION 1: FIRST TRIMESTER	Speaker – Prefix, full name, COUNTRY
08:00	10	Welcome and introduction	Francesco D'antonio (Italy)
08:10	20	Screening and diagnostic fetal neurosonogram: ISUOG Guidelines	Asma Khalil (UK)
08:30	20	How to perform a first trimester neurosonography	Simon Meagher (Australia)
08:50	20	Screening and diagnosis of Spina bifida 11-14 weeks	Simon Meagher (Australia)
09:10	20	3D Evaluation of the fetal CNS	Rabih Chaoui (Germany)
09:30	30	Panel discussion – Live Q&A	All faculty
10:00	**20**	**Refreshment Break**	
		SESSION 2: SESOND TRIMESTER: COMMON CNS ANOMALIES	
10:20	20	From mild ventriculomegaly to obstructive hydrocephalus	Ramamurthy (India)
10:40	20	Agenesis of the corpus callosum	Simon Meagher (Australia)
11;00	20	Counseling dilemmas in congenital and acquired anomalies of the corpus callosum	Francesco D'antonio (Italy)
11:20	20	Making sense of the short, thick, thin and dysplastic corpus callosum	Karina Haratz (Isreal)
11:40	20	Anomalies of the posterior cranial fossa made easy	Dario Paladini (Italy)
12:00	30	Panel discussion – Live Q&A	All faculty
12:30	**30**	**Lunch**	
		SESSION 3: THIRD TRIMESTER: CNS Anomalies	
13:00	20	Anomalies of cortical migration	Ritsuko Pooh (Japan)
13:20	20	Prenatal fetal intra-cerebral haemorrhage: Classification, diagnosis and management	Simon Meagher (Australia)
13:40	20	Destructive brain lesions	Asma Khalil (UK)
14:00	20	Screening and diagnosis of fetal brain infection	Asma Khalil (UK)
14:20	30	Panel discussion – Live Q&A	
14:50	**10**	**Refreshment Break**	
		SESSION 4: MRI and Genetics	
15:00	20	Genetic of fetal brain malformation: a changing landscape	Yuval Yaron
15:20	20	A guide on how to interpret fetal MRI	G Kasprian
15:40	30	Case studies: Panel discussion	All faculty
16:10	40	Final Q&A	All faculty
16:50	10	Feedback and close	Francesco D'antonio (Italy)

Please note that this is a provisional schedule subject to change.

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This program is in addition to these topics which will be covered in the online self-directed study.

Topics covered in the online self-study learning through the ISUOG Academy

- Posterior Fossa
- Blakes pouch Cyst: The good the bad and the Ugly
- The cerebellar Vermis: From partial to complete agenesis
- Mega cisterna Magna : an anatomical variant or a finding of concern

- 3rd Trimester / Rare
- Imaging Fetal ganglionic eminences - the Normal and Abnormal
- Intra-cerebral Vascular Lesions
- Rare CNS Malformation

- Fetal Infection
- CMV infection: ultrasound diagnosis, therapy, prognosis
- Toxo infection: ultrasound diagnosis, therapy, prognosis
- Zikaand others : ultrasound diagnosis, therapy, prognosis

- MRI
- Fetal MRI-Normal Fetal Brain Anatomy
- CNS Late diagnosis and When MRI adds Value
- Fetal brain MRI: how to interpret for fetal medicine specialist