

Ultrasound meets genetics
Sunday 27th April 2025



Livestream program
Prof. Asma Khalil (UK) and
Prof. Francesco D'Antonio (Italy)

Learning Objectives:

1. Learn how to link fetal anomalies with genetic diseases
2. Learn how to identify subtle ultrasound signs associated with genetic anomalies
3. Learn how to guide the type of genetic assessment when facing a structural anomaly
4. Learn how to integrate genetic and imaging to predict perinatal outcome and long-term prognosis

UK BST (UTC+1)	Mins		Invited Faculty (Name and country)
SESSION 1: Genetics and Ultrasound Controversies in genetic testing			
06:00	10	Welcome and Introduction	Prof. Asma Khalil (UK) and Prof. Francesco D'Antonio (Italy)
06:10	20	cfDNA in fetuses with increased nuchal translucency: considerations and pitfalls	Prof. Francesco D'Antonio (Italy)
06:30	15	cfDNA in fetuses with miscarriage	Prof. Antoni Borrell (Italy)
06:45	30	How can AI improve prenatal genetic diagnosis?	Prof. Yves Ville (France)
07:15	20	After a normal Trio exome discussing non-genetic causes of fetal abnormalities or those not picked up by exome	Dr Tessa Homfray (UK)
07:35	20	Prenatal management of abnormal genome-wide NIPT results	Prof. Jon Hyett (Australia)
07:55	25	Panel discussion and Q&A	All faculty
08:20	20	Refreshment Break	
SESSION 2: Genetics and Fetal Anomalies			
08:40	25	Prenatal diagnosis, genetic risk and parental counselling in fetuses with midline and posterior fossa anomalies	Prof. Karina Kraijden Haratz (Israel)
09:05	20	Cortical anomalies: how genetics can guide prenatal diagnosis and parental counselling	Prof. Ritsuko Pooh (Japan)
09:25	25	Prenatal diagnosis, genetic risk and outcome of isolated rare brain anomalies	Prof. Roei Birnbaum (Israel)
09:50	25	Cardiac anomalies and genetics: beyond 22.q11	Prof. Rabih Chaoui (Germany)
10:15	20	Prenatal diagnosis and genetic risk in fetuses with renal anomalies	Prof. Suresh Seshadri (India)
10:35	20	Clinical and genetic syndromes potentially identifiable in ultrasound	Prof. Francesco D'Antonio (Italy)
10:55	30	Panel discussion – Live Q&A	All faculty
11:25	40	Refreshment break	
SESSION 3: Genetics and the third trimester			
12:05	15	Molecular autopsy for fetal structural anomalies	Dr Fionnuala Mone (N. Ireland)
12:20	20	Genetic counselling in fetuses with short, long bones	Prof. Sahar Mansour (UK)
12:40	20	Prenatal diagnosis of facial anomalies: ultrasound features and genetic counselling	Dr Prashant Acharya (India)
13:00	15	Prenatal exome sequencing for equivocal or marginal findings	Prof. Alex Sotiriadis (Greece)
13:15	25	Fetal growth restriction: the value of genomic assessment	Prof. Asma Khalil (UK)
13:40	20	Prenatal genetic testing: latest evidence	Prof. Mary Norton (USA)
14:00	20	Imaging and molecular diagnostic approach in fetal hydrops	A/Prof. Daniele Di Mascio (Italy)
14:20	30	Case Discussion	Prof. Suresh Seshadri (India) and Dr Shreyasi Sharma (India)
14:50	25	Final panel discussion – Live Q&A	All faculty
15:15	5	Feedback and close	Prof. Asma Khalil (UK) and Prof. Francesco D'Antonio (Italy)

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