



## **Scientific program**

### **Monday 14 October 2019**

<b>07:30–08:10</b>	<b>MC: Prematurity prevention: from ultrasound to proteomics</b>	
07:30	From ultrasound to proteomics	
	<b>MC: Malformations of cortical development: is it possible to reach an etiologic diagnosis?</b>	
07:30	Malformations of cortical development	
	<b>MC: How to evaluate a patient presenting with infertility with a single scan</b>	
07:30	How to evaluate a patient presenting with infertility with a single scan	
	<b>MC: Ultrasound and cfDNA: a happy marriage?</b>	
07:30	Ultrasound and cfDNA: a happy marriage?	
<b>08:15–09:35</b>	<b>OC: cfDNA in our daily practice: what should we expect?</b>	
08:15	Invited talk [Title TBC]	
08:45	Performance of first trimester screening for Trisomy 21 in twin pregnancies	OC02.01
08:53	Performance of a genome-wide PCR-free, paired-end sequencing-based non-invasive prenatal screening test, VeriSeq NIPT Solution v2	OC02.02
09:01	Predictive value of cell-free DNA screening in a modern cohort: a single institution's experience	OC02.03
09:09	Residual risk for a postnatal diagnosis and livebirth of an atypical chromosomal aberration following first trimester combined screening	OC02.04

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09:17	What is the chance for pathogenic chromosomal microarray analysis results in structurally normal fetuses?	OC02.05
09:25	Prenatal fetal gender discordance following cfDNA testing	OC02.06
<b>08:15–09:35</b>	<b>OC: Cerebellum and posterior fossa</b>	
08:15	Live scan: how I scan the brain <i>[supported by Canon]</i>	
08:35	Prenatal diagnosis of rhombencephalosynapsis: beyond the fusion of the cerebellar hemispheres	OC03.01
08:43	3D fetal MRI visualisation of cerebellar white matter tracts	OC03.02
08:51	Neurodevelopmental outcome of children with fetal isolated vermian abnormalities <i>[shortlisted for Young Investigator award]</i>	OC03.03
08:59	Prospective detection and differential diagnosis of cystic posterior fossa anomalies by assessing posterior brain at 11–14 weeks	OC03.04
09:07	Cerebellar hypoplasia: prenatal diagnosis and outcome	OC03.05
09:15	Diagnosis of spina bifida in a routine clinical setting at the first trimester scan: a prospective multicentre study	OC03.06
09:23	Prenatal diagnosis of malformations of cortical development associated to midbrain-hindbrain anomalies	OC03.07
<b>08:15–09:35</b>	<b>OC: Classifying and managing ovarian masses</b>	
08:15	Using the IOTA ADNEX model to classify all ovarian masses	
08:35	Imaging in gynecology: mature cystic teratoma of the ovary <i>[shortlisted for Young Investigator award]</i>	OC04.01

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08:43	The role of IOTA ADNEX model compared to subjective assessment in the preoperative diagnosis of unilocular-solid adnexal masses	OC04.02
08:51	Prediction of adnexal torsion by ultrasound in women with acute abdominal pain	OC04.03
08:59	A machine-learning algorithm to distinguish benign and malignant adnexal tumours from ultrasound images	OC04.04
09:07	Conservative management of adnexal pathology classified as benign by ADNEX model before and after the menopause: a prospective multicentre study	OC04.05
09:15	Management of adnexal masses during pregnancy: a prospective study	OC04.06
09:23	Presurgical assessment of adnexal masses: performance of IOTA-LR2, ADNEX and RMI models and added value of tumour marker-based models ROMA and CPH-I	OC04.07
<b>08:15–09:35</b>	<b>OC: Ultrasound in the labour ward</b>	
08:15	ISUOG guidelines: intrapartum ultrasound	
08:35	Rotational forceps delivery: a novel role of intrapartum ultrasound for quality control and teaching	OC05.01
08:43	Movement of the fetal head during active pushing assessed with ultrasound	OC05.02
08:51	Ultrasound in the second stage of labour before instrumental vaginal delivery: a randomised controlled trial	OC05.03
08:59	Dynamic two-dimensional transperineal ultrasound prior to perineal suturing as a screening tool for anal sphincter injury and fecal incontinence	OC05.04
09:07	Moulding of the fetal head diagnosed with ultrasound	OC05.05

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09:15	Point of Care Ultrasound for fluid assessment and management in a pre-eclamptic patient with postpartum hemorrhage	OC05.06
09:23	Prediction of mode of delivery using intrapartum ultrasound in the assessment of fetal head deflexion	OC05.07
<b>08:15–09:15</b>	<b>HUB01: Basic Training Hubs series I</b>  <b>HUB02: In conversation with Ilan Timor-Tritsch: Caesarean scar pregnancy</b>  <b>HUB03: In conversation with Stuart Campbell: pearls of gynecological imaging</b>	
<b>09:40–10:20</b>	<b>OP: Novel imaging methods, artificial intelligence and more</b>  <b>OP: Classifying and managing ovarian masses</b>  <b>OP: Ultrasound in the labour ward</b>  <b>P01: cfDNA and new genetic technologies</b>  <b>P02: Diagnosis and prognosis of congenital heart defects</b>  <b>P03: Ultrasound and reproductive medicine</b>  <b>P04: Fetal disease I</b>	
10:15	Coffee break	
<b>10:45–12:05</b>	<b>OC: New genetic technologies: how can they help?</b>	
10:45	Cases that stump me	
11:05	Single gene, gene panel and exome sequencing applied in structurally abnormal fetuses with a normal chromosomal microarray analysis	OC06.01

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11:13	A new molecular work-up for early pregnancy losses based on QF-PCR and SNP-array in chorionic villi is more accurate than karyotyping	OC06.02
11:21	Increased fetal nuchal translucency: genetic examination by the advanced technology	OC06.03
11:29	Population-based prevalence of 22q11 deletion syndrome and other chromosome abnormalities in a combined prenatal and postnatal cohort	OC06.04
11:37	Prenatal diagnosis and clinical analysis of CNV in fetal cleft lip	OC06.05
11:45	Cell-free DNA in the detection of chromosomal aneuploidies in early fetal demise and miscarriage	OC06.06
11:53	Maternal plasma genome-wide cell-free DNA testing can detect fetal aneuploidy in pregnancy loss and can be used to guide further work-up in recurrent losses	OC06.07
<b>10:45–12:05</b>	<b>OC: The challenge of ventriculomegaly</b>	
10:45	Fetal brain anomalies: how to counsel your patient	
11:05	Role of prenatal magnetic resonance imaging in fetuses with isolated ventriculomegaly: a multicentre study <i>[shortlisted for Young Investigator award]</i>	OC07.01
11:13	Differential diagnosis of irregular lateral ventricle walls: correlation between prenatal imaging and fetal neuropathological studies	OC07.02
11:21	Prenatal work-up, associated anomalies and long-term postnatal outcomes of fetuses with 9–10mm cerebral ventricular atria width	OC07.03
11:29	Differential regional distribution of ventricular volumes in fetuses with isolated non-severe ventriculomegaly is associated with poor neurodevelopmental outcome	OC07.04
11:37	Prenatal diagnosis of arachnoid cysts: MRI features and neurodevelopmental outcome	OC07.05

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11:45	Prenatal diagnosis of dural sinus malformation using fetal magnetic resonance imaging	OC07.06
11:53	SS-FSE FAIR ASL parameters for non-invasive measurement of fetal brain perfusion <i>in vivo</i>	OC07.07
<b>10:45–12:05</b>	<b>OC: Investigating women with abnormal bleeding</b>	
10:45	Predicting the likely pathology in women with abnormal bleeding based on standardised ultrasound features: data from the IETA 1 study on over 3,000 women	
11:00	Caesarean section scars (the niche): ultrasound assessment and the current position on whether treatment is necessary	
11:15	Could comparative elastography help in the sonographic diagnosis of adenomyosis?	OC08.01
11:23	A prospective controlled study for Caesarean section niche development with hysteroscopic correlation in symptomatising patients	OC08.02
11:31	Prevalence of malignancy or premalignancy in postmenopausal women without vaginal bleeding in whom the endometrial thickness measured $\geq 11$ mm [ <i>shortlisted for Young Investigator award</i> ]	OC08.03
11:39	Oral administration of norethisterone acetate in women with adenomyosis: effects on ultrasound features and clinical symptoms	OC08.04
11:47	Incidental finding of endometrial polyps: results from a prospective multicentre study (IETA3) [ <i>shortlisted for Young Investigator award</i> ]	OC08.05
11:55	Ability to adequately visualise an endometrial echo on transvaginal ultrasound in asymptomatic postmenopausal women	OC08.06
<b>10:45–12:05</b>	<b>OC: Prediction of pregnancy complications</b>	
10:45	Prediction of pre-eclampsia in 2019	

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11:05	Prediction of preterm delivery by cervical length at 11–14 weeks of gestation	OC09.01
11:13	The risk of subsequent preterm birth in women with a short cervix who delivered at term	OC09.02
11:21	Contribution of the amniocentesis for the ultrasound prediction of spontaneous preterm delivery in women with preterm labour	OC09.03
11:29	A rapid MMP-8 bedside test performs better than amniotic fluid white blood cell count in the antenatal identification of acute histologic chorioamnionitis	OC09.04
11:37	Low Papp-A at booking: is serial ultrasound surveillance warranted?	OC09.05
11:45	Value of universal third trimester ultrasonography as predictor of adverse perinatal outcome at term	OC09.06
11:53	Women with a second trimester placenta previa of 14mm or less are at low risk of a placenta previa in the third trimester: a prospective cohort	OC09.07
<b>10:45–11:45</b>	<b>HUB04: Outreach virtual mentor workshop</b>	
	<b>HUB05: Infections</b>	
	<b>HUB06: In conversation with George Condous: how I evaluate my patients for endometriosis before surgery</b>	
<b>12:10–12:50</b>	<b>OP: Issues in prenatal genetic testing</b>	
	<b>OP: Fetal renal abnormalities</b>	
	<b>OP: Investigating causes of abnormal uterine bleeding</b>	
	<b>OP: Prediction of pregnancy complications</b>	
	<b>P05: Fetal disease II</b>	

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**P06: Fetal growth: predicting outcomes**

**P07: Classifying ovarian masses using  
ultrasonography**

**P08: New techniques for the evaluation of the fetal  
heart**

12:45 Lunch break

**13:10–14:10 HUB07: Guidelines Chinese**

**HUB08: Guidelines French**

**HUB09: In conversation with Nick Raine-Fenning:  
fertility**

**14:15–15:35 OC: Novel developments in our field**

14:15 Imaging the future (overview of latest new  
developments in fetal imaging, simulation, AI)

14:35 Combination of ultrasound and magnetic resonance  
imaging for virtual reality systems to evaluate fetal  
malformations OC10.01

14:38 Bioeffects safety indices of ultrasound: quantifying  
adherence to recommendations on routine obstetric  
scan OC10.02

14:46 Fetal exposure to magnetic resonance imaging:  
neurodevelopment outcome OC10.03

14:54 Introducing ISUOG's Basic Training novel approach to  
the second trimester anomaly scan: the 20+2 planes OC10.04

15:02 The "Valensise Radar" to understand the maternal  
hemodynamic status OC10.05

15:10 Breaking bad news due to fetal abnormalities during  
prenatal ultrasound examination: can simulation training  
be done? OC10.06





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15:18	To measure or not to measure? Current NCHD practice of abdominal circumference measurement in the Antenatal Clinic, Cork University Maternity Hospital, and the level of training required in achieving international best practice	OC10.07
15:26	A standardised examination protocol based on priority assessment levels to optimise first trimester ultrasound screening	OC10.08
<b>14:15–15:35</b>	<b>OC: Fetal anomalies: head and spine</b>	
14:15	Live scan: fetal anomalies head to toe [ <i>supported by Canon</i> ]	
14:35	Sensitivity of retronasal triangle view in first trimester detection of palatine clefts	OC11.01
14:43	Characterisation of the fetal external ear location and size by three-dimensional ultrasound	OC11.02
14:51	The relevance of fetal ductus venosus or ductus venosus-like structures-inferior vena cava shunt abnormalities and Down's syndrome	OC11.03
14:59	Vertebral patterns in conditions with variable outcome	OC11.04 & OC11.05
15:10	Role of early ultrasound scan: a two-year study of cases of increased nuchal translucency with normal karyotype	OC11.06
15:18	Randomised controlled study on the use of systematic simulator-based training (OPUS Fetal Heart Trainer) for learning the standard heart planes in fetal echocardiography	OC11.07
15:26	Syndromic craniofacial dysmorphic feature assessment <i>in utero</i> : potential for a novel imaging methodology with reconstructed 3D fetal MRI models	OC11.08
<b>14:15–15:35</b>	<b>OC: Ultrasound to help manage the oncology patient</b>	

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14:15	How does imaging influence my management of women with probable ovarian carcinoma	
14:35	How to assess the extent of tumour for women with endometrial and cervical cancer	
14:49	Preoperative assessment of ovarian cancer	
15:03	Can ultrasound do distinguished diagnosis between complete and partial hydatidiform mole with coexistent fetus?	OC12.01
15:11	Management of borderline ovarian tumours: overall survival and long-term follow-up	OC12.02
15:19	Comparison of clinical and ultrasound characteristics in low- and high-grade serous cancer	OC12.03
15:27	A new advanced tool in gynecological surgery: the intraoperative ultrasound examination	OC12.04
<b>14:15–15:35</b>	<b>OC: Fetal interventions in monochorionic twins</b>	
14:15	Video presentation: fetoscopic surgery of monochorionic twins	
14:31	Surgical versus expectant management in twin reversed arterial perfusion sequence	OC13.01
14:39	Umbilical artery end-diastolic flow patterns are associated with right ventricular outflow abnormalities in Twin–twin transfusion syndrome	OC13.02
14:47	Perioperative hemodynamic changes in Twin–twin transfusion syndrome and long-term neurodevelopmental outcomes	OC13.03
14:55	Intertwin differences in fetal cardiac geometry are associated with decreased dual twin survival in Twin–twin transfusion syndrome	OC13.04
15:03	Cervical pessary for prevention of preterm birth in Twin–twin transfusion syndrome	OC13.05

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15:11	Risk of intrauterine demise of donors with selective fetal growth restriction after laser surgery for Twin–twin transfusion syndrome	OC13.06
15:19	Ultrasound evaluation of fetomaternal circulation after modified laparoscopic cervicoisthmic cerclage	OC13.07
15:27	Mechanical properties and toxicity of different bioadhesives as sealing system for fetal membranes	OC13.08
<b>14:15–15:15</b>	<b>HUB10: In conversation with Dirk Timmerman: the IOTA study and classifying ovarian masses Q&amp;A</b>	
15:35	Coffee break	
<b>15:20–16:20</b>	<b>HUB11: Polish Society Hub</b>	
	<b>HUB12: SMFM Society Hub</b>	
	<b>HUB13: In conversation with Wellington Martins: uterine anomalies</b>	
	<b>HUB14: Argentina Society Hub</b>	
<b>16:00–17:30</b>	<b>WS: How isolated is “isolated” corpus callosum agenesis?</b>	
16:00	The contribution of ultrasound to the diagnosis of associated anomalies	
16:25	The contribution of MRI to the diagnosis of associated anomalies	
16:50	Is this corpus callosum normal?	
<b>16:00–17:30</b>	<b>WS: Abnormalities of situs and the venous system</b>	
16:00	Live scan: assessing situs and the venous system [supported by Samsung]	
16:20	Fetal umbilico portal ductus venous system	
16:40	Pulmonary venous system	

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- 17:00 Fetal situs anomalies and heterotaxy
- 16:00–17:30 WS: Classifying ovarian tumours: knowing how to classify ovarian masses using IOTA terminology, rules and models**
- 16:00 Terms and definitions used to describe ovarian masses: the key to getting it right
- 16:15 IOTA descriptors and simple rules: what are the ultrasound features and how to use the rules – can they be applied to all masses?
- 16:30 The IOTA ADNEX model: what variables are used and how to interpret the results
- 16:45 How worried should you be by solid projections into otherwise unilocular looking cysts?
- 17:00 Using the IOTA approach to classify ovarian masses in clinical practice: case examples
- 16:00–17:30 WS: Assessing early fetal growth restriction**
- 16:00 Assessing fetal growth: the ISUOG fetal biometry guidelines
- 16:20 Pathophysiology of early onset fetal growth restriction
- 16:40 Management of early growth restriction: the European view
- 16:55 Management of early growth restriction: the USA view
- 16:00–17:30 WS: 3D ultrasound of the fetal head**
- 16:00 Volume acquisition and qualitative and quantitative analysis of the fetal face and skull: a step-by-step guide
- 16:20 Genetic syndromes with an abnormal face that you must know: added value of 3D



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- 16:40            Brain views that benefit from or are only possible with 3D
- 17:00            Live volume/video demonstration face and skull:  
1. essentials in 2D and additional information from 3D;  
2. bone rendering
- 16:25–17:25        HUB15: The role of ultrasound in the management of intrapartum complications: practical training**
- HUB16: Ultrasound in labour in a low-resource setting**
- HUB17: Why ‘P’ valves are not the be all and end all**
- 17:30–18:00        HUB18: Monday HUB session hall 1 summary**
- HUB19: Monday HUB session hall 2 summary**
- HUB20: Monday HUB session hall 4 summary**