

## Scientific program

## **Tuesday 15 October 2019**

07:30–08:10	MC: Acquired prenatal insults of the brain	
07:30	Acquired prenatal insults of the brain	
	MC: Management and delivery in fetal growth restriction	
07:30	Management and delivery in fetal growth restriction	
	MC: Managing early pregnancy complications	
07:30	Managing early pregnancy complications	
	MC: Abnormal heart rhythm: how to diagnose and how to manage	
07:30	Abnormal heart rhythm: how to diagnose and how to manage	
08:00–12:00	Basic Training Simulation II (Title TBC)	
08:00–12:00 08:15–09:35	Basic Training Simulation II (Title TBC) OC: Corpus callosum et al	
08:15–09:35	OC: Corpus callosum et al	OC14.01
<b>08:15–09:35</b> 08:15	OC: Corpus callosum et al From ultrasound to counselling Prenatal neurodevelopmental outcome prediction using a novel MR-based scoring system in isolated callosal agenesis [shortlisted for Young Investigator	OC14.01 OC14.02
<b>08:15–09:35</b> 08:15 08:35	OC: Corpus callosum et al From ultrasound to counselling Prenatal neurodevelopmental outcome prediction using a novel MR-based scoring system in isolated callosal agenesis [shortlisted for Young Investigator award] Assessment of the corpus callosum in fetuses with	

## This is the preliminary program and is subject to change



09:07	Prenatal diagnosis of Aicardi syndrome	OC14.05
09:15	Differential effect in corpus callosum development in fetuses with congenital heart defect	OC14.06
09:23	The effect of flow and oxygenation on cortical development in fetuses with congenital heart defects using an automated brain-maturation prediction algorithm	OC14.07
08:15–09:35	OC: Fetal growth: the bigger picture	
08:15	Live scan: how to evaluate the growth-restricted fetus [supported by GE]	
08:31	Obstetric consequences of a false-positive diagnosis of large-for-gestational-age fetus	OC15.01
08:39	Born small-for-gestational age and moderate preterm: implications on postnatal growth	OC15.02
08:47	Identification of intrapartum fetal compromise using universal third trimester ultrasonography	OC15.03
08:55	Perinatal outcome of appropriate-weight fetuses with decelerating growth	OC15.04
09:03	Neighbourhood deprivation and fetal growth: the Generation R study	OC15.05
09:11	Human fetal growth restriction is influenced mainly by maternal socioeconomic status: an ecological study within a city from a developing country	OC15.06
09:19	Identification of phenotypes of fetal growth restriction using a network-based clustering approach	OC15.07
09:27	The association between fetal growth velocities and postnatal growth during the first five years after birth	OC15.08
08:15–09:35	OC: Managing complications in early pregnancy	



08:15	Assessing anatomy in the first trimester of pregnancy: moving beyond dating and viability	
08:30	The role of human chorionic gonadotrophin and transvaginal ultrasound in pregnancies of unknown location beyond 48 hours	OC16.01
08:38	Application value of the contrast-enhanced ultrasound in the diagnosis of Caesarean scar pregnancy type	OC16.02
08:46	Implementation of a tool for predicting early pregnancy outcome: a psychological impact study	OC16.03
08:54	External validation of the M6 model and the two-step triage system for pregnancies of unknown location	OC16.04
09:02	The diagnostic value of contrast-enhanced ultrasound in Caesarean scar pregnancy	OC16.05
09:10	Can cervical elastography guide management of missed miscarriage?	OC16.06
09:18	Early pregnancy biomarkers for the prediction of first trimester viability	OC16.07
09:26	Uterine artery embolisation in extreme cases of "enhanced myometrial vascularity" (acquired AVM) after previously treated early pregnancies	OC16.08
08:15–09:35	OC: Cardiac function and complications in congenital heart defects	
08:15	Modern cardiac function assessment	
08:30	Development and application of deep learning for identification, quantification, and disease diagnosis in second trimester fetal hearts	OC17.01
08:38	Assessment of fetal right ventricular systolic function: nomograms of fractional area change by 2D- echocardiography	OC17.02



08:46	The diastolic and systolic velocity time integral ratio of aortic isthmus is a sensitive indicator of aortic coarctation in fetuses	OC17.03
08:54	Assessment of fetal hemodynamics and flow volume of the umbilical vein in the EXTrauterine environment for neonatal development system	OC17.04
09:02	Fetal cardiac function before and after intrauterine transfusion assessed by automated analysis of colour tissue Doppler	OC17.05
09:10	Hemodynamic patterns in late-gestation human fetuses with cyanotic congenital heart disease	OC17.06
09:18	Relationship between foramen ovale restriction and flow characteristics of the ductus arteriosus in the fetus with transposition of the great arteries	OC17.07
09:26	Risk of pre-eclampsia, small-for-gestational age and placental abnormalities in pregnancies with prenatal diagnosis of major congenital heart disease	OC17.08
08:15–09:15	HUB21: Basic Training Hubs series II	
08:15–09:15	HUB21: Basic Training Hubs series II HUB22: Debate: 3D imaging in gynecological ultrasound	
08:15–09:15 09:40–10:20	HUB22: Debate: 3D imaging in gynecological	
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09:40–10:20	HUB22: Debate: 3D imaging in gynecological ultrasound OP: Neuroimaging OP: IUGR: basic science WS (short): Current thinking on Caesarean section scars and enhanced myometrial vascularity (EMV) A consensus view on how to define and evaluate a	



OP: Evaluation of the intrinsic function of the fetal heart P09: First, second and third trimester screening HUB23: Improving perinatal outcomes P10: Using ultrasound to evaluate women with pelvic pain and possible endometriosis P11: Multiple pregnancy 10:15 Coffee break **OC: Fetal surgery** 10:45-12:05 10:45 Fetal cardiac intervention 2019 11:05 Myelomeningocele repair: from prenatal evaluation to OC18.01 & postnatal outcome OC18.02 & OC18.03 11:18 Low transverse versus midline skin incision for *in* OC18.04 utero spina bifida repair 11:26 Fetal tracheoscopy and endoscopic tracheal OC18.05 intubation to ensure tracheal permeability in cases with cervical masses and fetal airways compromise OC18.06 11:34 Fetal endoscopic tracheal occlusion is associated with resolution of pulmonary hypertension in moderate congenital diaphragmatic hernia 11:42 International Fetal Cardiac Intervention Registry: a OC18.07 decade of data sharing and collaborative investigation MMC repair: future directions OC18.08 11:50 10:45-12:05 OC: Growth: insights into assessment 10:45 Biochemical manifestations of poor placentation



11:00	The impact of periconceptional parental alcohol exposure on embryonic growth trajectories using 3D ultrasound and virtual reality	OC19.01
11:08	A novel eye tracking study: how common is expected value bias in fetal growth scan assessment?	OC19.02
11:16	Antenatal corticosteroid therapy is associated with reduced intrauterine fetal growth velocity	OC19.03
11:24	Early growth velocity and mode of conception in the prediction of small-for-gestational age	OC19.04
11:32	Fetoplacental Doppler identifies small fetuses with increased concentrations of cord blood erythropoietin	OC19.05
11:40	Metabolomic profiling of paired maternal and cord blood in pre-eclampsia and fetal growth restriction	OC19.06
11:48	Maternal vascular malformation in the placenta is an indicator for fetal growth restriction irrespective of neonatal birthweight	OC19.07
11:56	Cerebroplacental ratio and AC growth velocity as novel predictors of severe neonatal hypoglycemia	OC19.08
10:45–12:05	OC: Using ultrasound to evaluate women with pelvic pain and possible endometriosis	
10:45	Clinical application of ultrasound in the planning of rectal and bladder endometriosis surgery	
11:00	Preoperative mapping of deep infiltrating endometriosis in the posterior compartment using transvaginal strain elastography and IDEA classification	OC20.01
11:08	The prevalence of pouch of Douglas obliteration depicted on basic transvaginal ultrasound by a negative sliding sign in a general population	OC20.02
11:16	Prevalence of endometriosis at transvaginal ultrasound in women with dysmenorrhea	OC20.03



11:24	Accuracy of 2D-ultrasonography in the diagnosis of abdominopelvic tuberculosis at the Philippine General Hospital: a five-year review	OC20.04
11:32	External validation of International Ovarian Tumour Analysis (IOTA) for classification of adnexal masses suspected to be endometriomas	OC20.05
11:40	Comparison of diagnostic accuracy of transvaginal ultrasound for deep endometriosis and pouch of Douglas obliteration in the presence and absence of ovarian endometriomas	OC20.06
11:48	Early learning curve in the assessment of deep infiltrating pelvic endometriosis when using ultrasound and magnetic resonance imaging	OC20.07
11:56	Is endometriosis a progressive disease? Ultrasonographic long-term study	OC20.08
12:04	Learning curve for the visualisation of ureters on transvaginal ultrasound in gynecological sonology trainees	OC20.09
10:45–12:05	OC: Molecular techniques and MRI in the diagnosis of congenital heart defects	
10:45	Novel 3D technology of the fetal heart	
11:00	Assessment of the correlation between congenital heart defects and brain injury in fetuses through magnetic resonance imaging	OC21.01
11:08	The incidence of genetic variants in fetuses with severe congenital heart defects	OC21.02
11:16	Dynamic fetal cardiac magnetic resonance imaging using Doppler ultrasound gating in the assessment of the fetal aortic arch: a feasibility study in comparison to fetal echocardiography	OC21.03
11:24		



reveals the entire genetic architecture in fetal population

- 11:32 A comparative study of prenatal ultrasound diagnosis OC21.05 and autopsy MRI and pathology on fetal congenital heart disease
- 11:40 Whole-exome sequencing and whole-genome OC21.06 sequencing improves genetic diagnosis of fetuses with heterotaxy syndrome revealed by prenatal ultrasound
- 11:48 The diagnostic value of postmortem magnetic OC21.07 resonance imaging of the fetal heart compared to conventional autopsy and ultrasound
- 11:56 Pilot study: utilising MRI to measure cardiac function OC21.08 in the sheep fetus
- 10:45–11:45 HUB24: In conversation with Asma Khalil: medicolegal cases

HUB25: In conversation with Gustavo Malinger: why do I (NOT) need MRI?

HUB26: In conversation with Karl Oliver Kagan: fetal anomaly screening in the first trimester

HUB27: Meet the Ambassadors

12:10–12:50 OP: Multiple pregnancy

**OP: Fetal anomalies: infections** 

OP: Using ultrasound to evaluate women with pelvic pain and possible endometriosis

OP: Screening for and diagnosis of congenital heart defects

P12: Fetal interventions and therapy: complicated monochorionic pregnancy, spina bifida and other conditions



	P13: Hypertension in pregnancy	
	P14: Managing early pregnancy complications	
	P15: Fetal growth: Doppler and other functional assessment	
12:45	Lunch break	
13:10–14:10	HUB28: Guidelines Russian	
	HUB29: Guidelines Spanish	
	HUB30: Sonohysterography pitfalls/pearl	
	HUB31: False-positive images at the mid-term scan	
14:15–15:35	OC: Monochorionic twins	
14:15	Fetal cardiac assessment in monochorionic twins	
14:35	Reducing stillbirth in twin pregnancy through implementation of guidelines: is it possible?	OC22.01
14:43	Contribution of the Solomon technique in the treatment of Twin-twin transfusion syndrome: a single centre experience	OC22.02
14:51	Apparent diffusion coefficient differences between normal and complicated monochorionic diamniotic pregnancy	OC22.03
14:59	Cardiac morphometry in uncomplicated monochorionic diamniotic twins: comparison to singletons	OC22.04
15:07	Amniotic fluid NT-proBNP is only associated with congestive heart failure of recipient twin in TTTS but not larger twin in selective IUGR	OC22.05



15:15	Short-term cardiac follow-up of survivors of Twin–twin transfusion syndrome treated with fetoscopic laser coagulation	OC22.06
15:23	Monochorionic diamniotic twins with selective fetal growth restriction (sFGR) and intermittent absent end- diastolic flow have outcomes more similar to Type-1 versus Type-3 sFGR	OC22.07
14:15–15:35	OC: Fetal anomalies in the second trimester	
14:15	Live scan: the full anomaly scan [supported by Samsung]	
14:35	Risk of congenital anomalies in newborns conceived by ART versus spontaneous pregnancies	OC23.01
14:43	Fetal anogenital distance is longer in polycystic ovary syndrome mothers	OC23.02
14:51	Prenatal diagnosis of disorders of sex differentiation	OC23.03
14:59	Reference range of the fetal anal sphincter from 22– 37 weeks of gestation	OC23.04
15:07	Effect of maternal BMI on ultrasound image quality at the routine anatomy scan	OC23.05
15:15	Significant variation in practice for first trimester anatomy assessment: results from a nationwide survey	OC23.06
15:23	A longitudinal study of three-dimensional fetal anatomy imaging in the first and early second trimester	OC23.07
14:15–15:35	OC: Ultrasound, infertility and fertility preservation	
14:15	Use of intraoperative ultrasound during fertility-sparing surgery	
14:27	Fertility-sparing surgery	OC24.01 & OC24.02



14:35	How I use ultrasound to guide treatment for Caesarean scar ectopic pregnancies to reduce the risk of damage to the uterus	
14:45	Ovarian reserve parameters as indications for ovarian tissue cryopreservation in children suffering from non- iatrogenic premature ovarian failure	OC24.03
14:53	Study on correlation between tubal patency and uterine pressure under three-dimensional hysterosalpingo-contrast-sonography	OC24.04
15:01	Clinical and ultrasound characteristics of adnexal torsion	OC24.05
15:09	Value of transvaginal sonography in diagnosing cervical pregnancy after <i>in vitro</i> fertilisation-embryo transfer	OC24.06
15:17	Prevalence of congenital uterine anomalies in asymptomatic premenopausal women at three- dimensional transvaginal ultrasound examination	OC24.07
14:15–15:35	OC: Hemodynamics from fetus to mother	
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14:15 14:30	OC: Hemodynamics from fetus to mother Maternal hemodynamics: has the time come for routine implementation? Video demonstration: how to assess the maternal heart Fetoplacental Doppler for the identification of cardiac	OC25.01
14:15 14:30 14:40	<ul> <li>OC: Hemodynamics from fetus to mother</li> <li>Maternal hemodynamics: has the time come for routine implementation?</li> <li>Video demonstration: how to assess the maternal heart</li> <li>Fetoplacental Doppler for the identification of cardiac dysfunction in small-for-gestational-age fetuses</li> <li>Hemodynamic factors associate with fetal cardiac</li> </ul>	OC25.01 OC25.02



15:12	Fetal-placental Doppler indices are associated with maternal cardiovascular function: a three-centre study using different techniques [shortlisted for Young Investigator award]	OC25.03
15:12	Fetal umbilical artery Doppler end-diastolic flow is associated with changes in maternal cardiovascular function: a three-centre study using different techniques	OC25.04
15:15	Maternal hemodynamic findings in small-for- gestational-age and growth-restricted fetuses	OC25.05
15:23	Maternal hemodynamics in small babies	OC25.06 & OC25.07
14:15–15:15	HUB32: Ultrasound images per country	
15:20–16:20	HUB33: Philippines Society Hub	
	HUB34: Hellenic Society Hub	
	HUB35: Debate: should methotrexate be given to treat ectopic pregnancy?	
	HUB36: Romanian Society Hub	
15:35	Coffee break	
16:00–17:30	WS: Outcome of infratentorial anomalies	
16:00	How sure am I that this vermis is normal?	
16:30	Normal and pathological development of the midbrain- hindbrain	
17:00	Follow-up of infants diagnosed with brain anomalies prenatally: a plea for a standard evaluation of outcomes	
16:00–17:30	WS: Ultrasound in the labour ward: why and how	



- 16:00 Live scan: how to scan in active labour? [supported by *GE*]
- 16:15 Ultrasound in labour arrest: malpositions and malpresentations
- 16:35 Ultrasound in women with slow progress in the second stage: Caesarean section, instrumental delivery or wait for spontaneous delivery?
- 16:55 Ultrasound in postpartum hemorrhage: spotting the cause, solving the problem
- 17:15 Practical demonstration with IUSIM PLUS mannequin
- 16:00–17:30 WS: Ultrasound, fertility preservation and fertility sparing surgery
- 16:00 Oncofertility: past present and future
- 16:20 How to carry out ultrasound-guided laparoscopic surgery: case examples and videos
- 16:40 Avoiding damage to the uterus: ultrasound-guided procedures and the uterus
- 17:00 Managing incidental findings found on ultrasound scans: when can we safely discharge from follow-up or at least avoid surgery
- 16:00–17:30 WS: Updates on infections during pregnancy
- 16:00 Zika virus epidemy in Brazil: what happened?
- 16:20 CMV: what is new in antiviral therapy
- 16:40 CMV: what is new in immunoglobulin therapy
- 17:00 Update on toxoplasmosis
- 16:25–17:25 HUB37: Translational research for clinicians' work in gynecological ultrasound



17:30–18:00HUB38: Tuesday HUB session hall 1 summaryHUB39: Tuesday HUB session hall 2 summaryHUB40: Tuesday HUB session hall 4 summary