



## Scientific program

### Tuesday 15 October 2019

<b>07:30-08:10</b>	<b>Masterclasses</b> Acquired prenatal insults of the brain <i>G. Malinge (Israel); D. Prayer (Austria)</i>	<b>Convention Hall I (C)</b>
	Management and delivery in fetal growth restriction <i>A.A. Baschat (United States)</i>	<b>Convention Hall II</b>
	Managing early pregnancy complications <i>T. Bourne (United Kingdom)</i>	<b>Convention Hall I (D)</b>
	Abnormal heart rhythm: how to diagnose and how to manage <i>J. Carvalho (United Kingdom)</i>	<b>Estrel Hall (A+B)</b>
<b>08:00-12:00</b>	<b>“Hands-on” workshop</b> <b>Fetal heart simulation</b> <i>Chair: G.E. Chalouhi (France)</i>	<b>Europa</b>
	Learning objectives: How to do a basic exam of the fetal heart, following ISUOG guidelines for fetal echocardiography	
08:00	Welcome	
08:05	ISUOG guidelines for fetal echocardiography (focusing on the basic scan) and presentation of simulation/simulators	
	Fetal heart module simulation workshop <i>Groups of two delegates per simulator</i>	
<b>10:15-10:45</b>	<b>Coffee and e-poster viewing</b>	
10:45	Fetal heart module simulation workshop <i>Groups of two delegates per simulator</i>	
<b>08:15-09:35</b>	<b>Corpus callosum et al</b> <i>Chairs: R.K. Pooh (Japan); F. Bahlmann (Germany)</i>	<b>Convention Hall I (C)</b>
08:15	<b>INVITED</b> From ultrasound to counselling <i>L. Guibaud (France)</i>	
08:35	<b>OC14.01</b> Prenatal neurodevelopmental outcome prediction using a novel MR-based scoring system in isolated callosal agenesis <i>S. Glatter (Austria)</i>	



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- 08:40 Discussion
- 08:43 **OC14.02** Assessment of the corpus callosum in fetuses with isolated non-severe ventriculomegaly  
*E. Monterde (Spain)*
- 08:48 Discussion
- 08:51 **OC14.03** Added value of fetal MR tractography in evaluation of the short corpus callosum: preliminary results  
*A.E. Millischer (France)*
- 08:56 Discussion
- 08:59 **OC14.04** Corpus callosum length in fetuses with confirmed Down's syndrome  
*E. Sinkovskaya (United States)*
- 09:04 Discussion
- 09:07 **OC14.05** Prenatal diagnosis of Aicardi syndrome  
*L. Pomar (Switzerland)*
- 09:12 Discussion
- 09:15 **OC14.06** Differential effect in corpus callosum development in fetuses with congenital heart defect  
*M. Perez-Cruz (Spain)*
- 09:20 Discussion
- 09:23 **OC14.07** The effect of flow and oxygenation on cortical development in fetuses with congenital heart defects using an automated brain-maturation prediction algorithm  
*S.M. Everwijn (Netherlands)*
- 09:28 Discussion
- 08:15-09:35 Fetal growth: the bigger picture** **Convention Hall II**  
*Chairs: A.T. Papageorgiou (United Kingdom); A. Odibo (United States)*
- 08:15 **LIVE SCAN** How to evaluate the growth-restricted fetus [industry supported]  
*K. Hecher (Germany)*
- 08:31 **OC15.01** Obstetric consequences of a false-positive diagnosis of large-for-gestational-age fetus  
*M. Papaccio (Italy)*



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- 08:36 Discussion
- 08:39 **OC15.02** Born small for gestational age and moderate preterm: implications on postnatal growth  
*L. Lindström (Sweden)*
- 08:44 Discussion
- 08:47 **OC15.03** Identification of intrapartum fetal compromise using universal third trimester ultrasonography  
*P. Iannone (United Kingdom)*
- 08:52 Discussion
- 08:55 **OC15.04** Perinatal outcome of appropriate-weight fetuses with decelerating growth  
*C. Chatzakis (Greece)*
- 09:00 Discussion
- 09:03 **OC15.05** Neighbourhood deprivation and fetal growth: the Generation R study  
*D. Gootjes (Netherlands)*
- 09:08 Discussion
- 09:11 **OC15.06** Human fetal growth restriction is influenced mainly by maternal socioeconomic status: an ecological study within a city from a developing country  
*N. Maestre (Colombia)*
- 09:16 Discussion
- 09:19 **OC15.07** Identification of phenotypes of fetal growth restriction using a network-based clustering approach  
*J. Miranda (Spain)*
- 09:24 Discussion
- 09:27 **OC15.08** The association between fetal growth velocities and postnatal growth during the first five years after birth  
*M. Hendrix (Netherlands)*
- 09:32 Discussion



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08:15-09:35	<b>Managing complications in early pregnancy</b> <i>Chairs: D. Timmerman (Belgium); E. Kirk (United Kingdom)</i>	<b>Convention Hall I (D)</b>
08:15	<b>INVITED</b> Assessing anatomy in the first trimester of pregnancy: moving beyond dating and viability <i>H. Shah (United Kingdom)</i>	
08:30	<b>OC16.01</b> The role of human chorionic gonadotrophin and transvaginal ultrasound in pregnancies of unknown location beyond 48 hours <i>C. Kyriacou (United Kingdom)</i>	
08:35	Discussion	
08:38	<b>OC16.02</b> Application value of the contrast-enhanced ultrasound in the diagnosis of Caesarean scar pregnancy type <i>Y. Wu (China)</i>	
08:43	Discussion	
08:46	<b>OC16.03</b> Implementation of a tool for predicting early pregnancy outcome: a psychological impact study <i>K. Lawson (United Kingdom)</i>	
08:51	Discussion	
08:54	<b>OC16.04</b> External validation of the M6 model and the two-step triage system for pregnancies of unknown location <i>E. Christodoulou (Belgium)</i>	
08:59	Discussion	
09:02	<b>OC16.05</b> The diagnostic value of contrast-enhanced ultrasound in Caesarean scar pregnancy <i>D. Liu (China)</i>	
09:07	Discussion	
09:10	<b>OC16.06</b> Can cervical elastography guide management of missed miscarriage? <i>H. Fourie (United Kingdom)</i>	
09:15	Discussion	
09:18	<b>OC16.07</b> Early pregnancy biomarkers for the prediction of first trimester viability <i>M. Al-Memar (United Kingdom)</i>	
09:23	Discussion	

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- 09:26 **OC16.08** Uterine artery embolisation in extreme cases of “enhanced myometrial vascularity” (acquired AVM) after previously treated early pregnancies  
*I.E. Timor-Tritsch (United States)*
- 09:31 Discussion
- 08:15-09:35** **Cardiac function and complications in congenital heart defects** **Estrel Hall (A+B)**  
*Chairs: E.A. Hernandez-Andrade (United States); R. Axt-Fliedner (Germany)*
- 08:15 **INVITED** Modern cardiac function assessment  
*G.R. DeVore (United States)*
- 08:30 **OC17.01** Development and application of deep learning for identification, quantification, and disease diagnosis in second trimester fetal hearts  
*A.J. Moon-Grady (United States)*
- 08:35 Discussion
- 08:38 **OC17.02** Assessment of fetal right ventricular systolic function: nomograms of fractional area change by 2D-echocardiography  
*O. Gómez (Spain)*
- 08.43 Discussion
- 08:46 **OC17.03** The diastolic and systolic velocity time integral ratio of aortic isthmus is a sensitive indicator of aortic coarctation in fetuses  
*H. Wang (China)*
- 08:51 Discussion
- 08:54 **OC17.04** Assessment of fetal hemodynamics and flow volume of the umbilical vein in the EXTrauterine environment for neonatal development system  
*K. Ozawa (Japan)*
- 08:59 Discussion
- 09:02 **OC17.05** Fetal cardiac function before and after intrauterine transfusion assessed by automated analysis of colour tissue Doppler  
*L. Herling (Sweden)*
- 09:07 Discussion
- 09:10 **OC17.06** Hemodynamic patterns in late-gestation human fetuses with cyanotic congenital heart disease  
*L. Sun (China)*

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09:15	Discussion	
09:18	<b>OC17.07</b> Relationship between foramen ovale restriction and flow characteristics of the ductus arteriosus in the fetus with transposition of the great arteries <i>J. Rychik (United States)</i>	
09:23	Discussion	
09:26	<b>OC17.08</b> Risk of pre-eclampsia, small for gestational age and placental abnormalities in pregnancies with prenatal diagnosis of major congenital heart disease <i>V. Giorgione (United Kingdom)</i>	
09:31	Discussion	
<b>09:40-10:20</b>	<b>Short oral presentations (OP)</b> <b>OP09</b> Neuroimaging <i>Chairs: F. Kainer (Germany); G. Kasprian (Austria)</i>	<b>Convention Hall I (C)</b>
	<b>OP10</b> IUGR: basic science <i>Chairs: A. Odibo (United States); D. Schlembach (Germany)</i>	<b>Convention Hall II</b>
<b>09:40-10:20</b>	<b>Workshop</b> <b>Current thinking on Caesarean section scars and enhanced myometrial vascularity (EMV)</b> <i>Chairs: D. Jurkovic (United Kingdom); K. Kalache (Qatar)</i>	<b>Convention Hall I (D)</b>
09:40	A consensus view on how to define and evaluate a uterine niche <i>J. Huirne (Netherlands)</i>	
09:50	Enhanced myometrial vascularity: is this something to be concerned about? <i>D. Timmerman (Belgium)</i>	
10:00	Should we be screening for Caesarean scar pregnancies? <i>I.E. Timor-Tritsch (United States)</i>	
10:10	Discussion	
<b>09:40-10:20</b>	<b>OP11</b> Evaluation of the intrinsic function of the fetal heart <i>Chairs: J. Rychik (United States); F. Crispi (Spain)</i>	<b>Estrel Hall (A+B)</b>
<b>10:15-10:45</b>	<b>Coffee and e-poster viewing</b>	
<b>10:45-12:05</b>	<b>Fetal surgery</b> <i>Chairs: L. Lewi (Belgium); J. Stirnemann (France)</i>	<b>Convention Hall I (C)</b>
10:45	<b>INVITED</b> Fetal cardiac intervention 2019 <i>W. Arzt (Austria)</i>	

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- 11:05      **OC18.01, OC18.02 & OC18.03** Myelomeningocele repair: from prenatal evaluation to postnatal outcome  
*R. Corroenne (United States)*
- 11:15      Discussion
- 11:18      **OC18.04** Low transverse versus midline skin incision for *in utero* spina bifida repair  
*M. Fishel-Bartal (United States)*
- 11:23      Discussion
- 11:26      **OC18.05** Fetal tracheoscopy and endoscopic tracheal intubation to ensure tracheal permeability in cases with cervical masses and fetal airways compromise  
*R. Cruz-Martinez (Mexico)*
- 11:31      Discussion
- 11:34      **OC18.06** Fetal endoscopic tracheal occlusion is associated with resolution of pulmonary hypertension in moderate congenital diaphragmatic hernia  
*J. Espinoza (United States)*
- 11:39      Discussion
- 11:42      **OC18.07** International Fetal Cardiac Intervention Registry: a decade of data sharing and collaborative investigation  
*A.J. Moon-Grady (United States)*
- 11:47      Discussion
- 11:50      **INVITED** MMC repair: future directions  
*J. Deprest (Belgium)*
- 10:45-12:05**      **Growth: insights into assessment**      **Convention Hall II**  
*Chairs: F. Figueras (Spain); B. Arabin (Germany)*
- 10:45      **INVITED** Biochemical manifestations of poor placentation  
*S. Verlohren (Germany)*
- 11:00      **OC19.01** The impact of periconceptional parental alcohol exposure on embryonic growth trajectories using 3D ultrasound and virtual reality  
*M. Rousian (Netherlands)*
- 11:05      Discussion



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- 11:08 **OC19.02** A novel eye tracking study: how common is expected value bias in fetal growth scan assessment?  
*L. Drukker (United Kingdom)*
- 11:13 Discussion
- 11:16 **OC19.03** Antenatal corticosteroid therapy is associated with reduced intrauterine fetal growth velocity  
*G. Rizzo (Italy)*
- 11:21 Discussion
- 11:24 **OC19.04** Early growth velocity and mode of conception in the prediction of small for gestational age  
*G. Albaiges (Spain)*
- 11:29 Discussion
- 11:32 **OC19.05** Fetoplacental Doppler identifies small fetuses with increased concentrations of cord blood erythropoietin  
*J. Miranda (Spain)*
- 11:37 Discussion
- 11:40 **OC19.06** Metabolomic profiling of paired maternal and cord blood in pre-eclampsia and fetal growth restriction  
*L. Youssef (Spain)*
- 11:45 Discussion
- 11:48 **OC19.07** Maternal vascular malformation in the placenta is an indicator for fetal growth restriction irrespective of neonatal birthweight  
*M. Hendrix (Netherlands)*
- 11:53 Discussion
- 11:56 **OC19.08** Cerebroplacental ratio and AC growth velocity as novel predictors of severe neonatal hypoglycemia  
*A. Cavallaro (United Kingdom)*
- 12:01 Discussion
- 10:45-12:05** **Using ultrasound to evaluate women with pelvic pain and possible endometriosis** **Convention Hall I (D)**  
*Chairs: D. Jurkovic (United Kingdom); L. Valentin (Sweden)*
- 10:45 **INVITED** Clinical application of ultrasound in the planning of rectal and bladder endometriosis surgery  
*G. Hudelist (Austria)*





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- 11:00      **OC20.01** Preoperative mapping of deep infiltrating endometriosis in the posterior compartment using transvaginal strain elastography and IDEA classification  
*G. Szabó (Hungary)*
- 11:05      Discussion
- 11:08      **OC20.02** The prevalence of pouch of Douglas obliteration depicted on basic transvaginal ultrasound by a negative sliding sign in a general population  
*M. Leonardi (Australia)*
- 11:13      Discussion
- 11:16      **OC20.03** Prevalence of endometriosis at transvaginal ultrasound in women with dysmenorrhea  
*L. Jokubkiene (Sweden)*
- 11:21      Discussion
- 11:24      **OC20.04** Accuracy of 2D-ultrasonography in the diagnosis of abdominopelvic tuberculosis at the Philippine General Hospital: a five-year review  
*M. Desano (Philippines)*
- 11:29      Discussion
- 11:32      **OC20.05** External validation of International Ovarian Tumour Analysis (IOTA) for classification of adnexal masses suspected to be endometriomas  
*V.H. Eisenberg (Israel)*
- 11:37      Discussion
- 11:40      **OC20.06** Comparison of diagnostic accuracy of transvaginal ultrasound for deep endometriosis and pouch of Douglas obliteration in the presence and absence of ovarian endometriomas  
*M. Leonardi (Australia)*
- 11:45      Discussion
- 11:48      **OC20.07** Early learning curve in the assessment of deep infiltrating pelvic endometriosis when using ultrasound and magnetic resonance imaging  
*T. Indrielle-Kelly (United Kingdom)*
- 11:53      Discussion



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- 11:56 **OC20.08** Is endometriosis a progressive disease?  
Ultrasonographic long-term study  
*S. Ferrero (Italy)*
- 12:01 Discussion
- 12:04 **OC20.09** Learning curve for the visualisation of ureters on  
transvaginal ultrasound in gynecological sonology trainees  
*M. Leonardi (Australia)*
- Discussion
- 10:45-12:05** **Molecular techniques and MRI in the diagnosis of congenital heart defects** **Estrel Hall (A+B)**  
*Chairs: J. Carvalho (United Kingdom); J.A. Copel (United States)*
- 10:45 **OC21.01** Assessment of the correlation between congenital heart defects and brain injury in fetuses through magnetic resonance imaging  
*A. Weissmann-Brenner (Israel)*
- 11:00 Discussion
- 10:53 **OC21.02** The incidence of genetic variants in fetuses with severe congenital heart defects  
*A. van Nisselrooij (Netherlands)*
- 10:58 Discussion
- 11:01 **OC21.03** 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  
*M. Tavares de Sousa (Germany)*
- 11:06 Discussion
- 11:09 **OC21.04** Next generation sequencing in 83 Chinese fetal congenital cardiac left-sided congenital heart defects reveals the entire genetic architecture in fetal population  
*H. Sun (China)*
- 11:14 Discussion
- 11:17 **OC21.05** A comparative study of prenatal ultrasound diagnosis and autopsy MRI and pathology on fetal congenital heart disease  
*W. Xia (China)*
- 11:22 Discussion

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- 11:25 **OC21.06** Whole-exome sequencing and whole-genome sequencing improves genetic diagnosis of fetuses with heterotaxy syndrome revealed by prenatal ultrasound  
*Y. Tong (China)*
- 11:30 Discussion
- 11:33 **OC21.07** The diagnostic value of postmortem magnetic resonance imaging of the fetal heart compared to conventional autopsy and ultrasound  
*B. Ulm (Austria)*
- 11:38 Discussion
- 11:41 **OC21.08** Pilot study: utilising MRI to measure cardiac function in the sheep fetus  
*K. Cho (Canada)*
- 11:46 Discussion
- 11:49 **INVITED** Innovations in fetal cardiovascular imaging  
*S. Yagel (Israel)*
- 12:10-12:50 Short oral presentations (OP)**
- OP12** Multiple pregnancy  
*Chairs: R. Abu-Rustum (United States); A. Geipel (Germany)* **Convention Hall I (C)**
- OP13** Fetal anomalies: infections  
*Chairs: A. Sotiriadis (Greece); M. Meyer-Wittkopf (Germany)* **Convention Hall II**
- OP14** Using ultrasound to evaluate women with pelvic pain and possible endometriosis  
*Chairs: S. Guerriero; S. Ferrero (Italy)* **Convention Hall I (D)**
- OP15** Screening for and diagnosis of congenital heart defects  
*Chairs: H. Gardiner (United States); M. Cruz-Lemini (Spain)* **Estrel Hall (A+B)**
- 12:45-14:15 Lunch and e-poster viewing**
- 13:00-14:00 Industry sponsored satellite symposia**
- 14:15-15:35 Monochorionic twins** **Convention Hall I (C)**  
*Chairs: K. Hecher (Germany); P. Klaritsch (Austria)*
- 14:15 **INVITED** Fetal cardiac assessment in monochorionic twins  
*H. Gardiner (United States)*
- 14:35 **OC22.01** Reducing stillbirth in twin pregnancy through implementation of guidelines: is it possible?  
*A. Khalil (United Kingdom)*

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- 14:40 Discussion
- 14:43 **OC22.02** Contribution of the Solomon technique in the treatment of Twin–twin transfusion syndrome: a single centre experience  
*C. Colmant (France)*
- 14:48 Discussion
- 14:51 **OC22.03** Apparent diffusion coefficient differences between normal and complicated monochorionic diamniotic pregnancy  
*M. Aertsen (Belgium)*
- 14:56 Discussion
- 14:59 **OC22.04** Cardiac morphometry in uncomplicated monochorionic diamniotic twins: comparison to singletons  
*M. Bennasar (Spain)*
- 15:04 Discussion
- 15:07 **OC22.05** Amniotic fluid NT-proBNP is only associated with congestive heart failure of recipient twin in Twin–twin transfusion syndrome but not larger twin in selective IUGR  
*M. Nakata (Japan)*
- 15:12 Discussion
- 15:15 **OC22.06** Short-term cardiac follow-up of survivors of Twin–twin transfusion syndrome treated with fetoscopic laser coagulation  
*M. Gijtenbeek (Netherlands)*
- 15:20 Discussion
- 15:23 **OC22.07** 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  
*J. Gebb (United States)*
- 15:28 Discussion
- 14:15-15:35 Fetal anomalies in the second trimester** **Convention Hall II**  
*Chairs: A. Ngu (Australia); C. Brezinka (Austria)*
- 14:15 **LIVE SCAN** The full anomaly scan [industry supported]  
*A. Weichert (Germany)*
- 14:35 **OC23.01** Risk of congenital anomalies in newborns conceived by ART versus spontaneous pregnancies  
*L. Perdom (Spain)*

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- 14:40 Discussion
- 14:43 **OC23.02** Fetal anogenital distance is longer in polycystic ovary syndrome mothers  
*S. Perlman (Israel)*
- 14:48 Discussion
- 14:51 **OC23.03** Prenatal diagnosis of disorders of sex differentiation  
*L.J. Salomon (France)*
- 14:56 Discussion
- 14:59 **OC23.04** Reference range of the fetal anal sphincter from 22–37 weeks of gestation  
*K. Ichizuka (Japan)*
- 15:04 Discussion
- 15:07 **OC23.05** Effect of maternal BMI on ultrasound image quality at the routine anatomy scan  
*M. Yaqub (United Kingdom)*
- 15:12 Discussion
- 15:15 **OC23.06** Significant variation in practice for first trimester anatomy assessment: results from a nationwide survey  
*J. Karim (United Kingdom)*
- 15:20 Discussion
- 15:23 **OC23.07** A longitudinal study of three-dimensional fetal anatomy imaging in the first and early second trimester  
*H. Shah (United Kingdom)*
- 15:28 Discussion
- 14:15-15:35** **Ultrasound, infertility and fertility preservation** **Convention Hall I (D)**  
*Chairs: J. Yazbek (United Kingdom); D. Franchi (Italy)*
- 14:15 **INVITED** Use of intraoperative ultrasound during fertility-sparing surgery  
*S. Saso (United Kingdom)*
- 14:27 **OC24.01 & OC24.02** Fertility-sparing surgery  
*S. Saso (United Kingdom)*
- 14:32 Discussion



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- 14:35 **INVITED** How I use ultrasound to guide treatment for Caesarean scar ectopic pregnancies to reduce the risk of damage to the uterus  
*D. Jurkovic (United Kingdom)*
- 14:45 **OC24.03** Ovarian reserve parameters as indications for ovarian tissue cryopreservation in children suffering from non-iatrogenic premature ovarian failure  
*M. Zajicek (Israel)*
- 14:50 Discussion
- 14:53 **OC24.04** Study on correlation between tubal patency and uterine pressure under three-dimensional hysterosalpingo-contrast-sonography  
*M. Tu (China)*
- 14:58 Discussion
- 15:01 **OC24.05** Clinical and ultrasound characteristics of adnexal torsion  
*F. Moro (Italy)*
- 15:06 Discussion
- 15:09 **OC24.06** Value of transvaginal sonography in diagnosing cervical pregnancy after *in vitro* fertilisation-embryo transfer  
*Y. Mao (China)*
- 15:14 Discussion
- 15:17 **OC24.07** Prevalence of congenital uterine anomalies in asymptomatic premenopausal women at three-dimensional transvaginal ultrasound examination  
*A. Arechvo (Sweden)*
- 15:22 Discussion
- 14:15-15:35 Hemodynamics from fetus to mother** **Estrel Hall (A+B)**  
*Chairs: L. Poon (Hong Kong); T. Frusca (Italy)*
- 14:15 **INVITED** Maternal hemodynamics: has the time come for routine implementation?  
*C. Lees (United Kingdom)*
- 14:30 **VIDEO** How to assess the maternal heart  
*K. Melchiorre (United Kingdom)*
- 14:40 **OC25.08** Fetoplacental Doppler for the identification of cardiac dysfunction in small-for-gestational-age fetuses  
*A. Sepúlveda-Martínez (Chile)*
- 14:45 Discussion

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- 14:48      **OC25.01** Hemodynamic factors associate with fetal cardiac remodelling in late fetal growth restriction  
*G. Rizzo (Italy)*
- 14:53      Discussion
- 14:56      **OC25.02** Estimated pulse wave velocity in growth-restricted fetuses: a novel perspective for fetal hemodynamic changes using phased tracking method  
*S. Miyashita (Japan)*
- 15:01      Discussion
- 15:04      **OC25.03 & OC25.04** Fetal Dopplers are associated with maternal cardiovascular function  
*J. Tay (United Kingdom)*
- 15:12      Discussion
- 15:15      **OC25.05** Maternal hemodynamic findings in small-for-gestational-age and growth-restricted fetuses  
*E. di Pasquo (Italy)*
- 15:20      Discussion
- 15:23      **OC25.06 & OC25.07** Maternal hemodynamics in small babies  
*A. Khalil (United Kingdom)*
- 15:31      Discussion
- 15:35-16:00      **Coffee and e-poster viewing**
- 16:00-17:30**      **Workshop**      **Convention**  
                         **Outcome of infratentorial anomalies**      **Hall I (C)**  
                         *Chairs: F. D'Antonio (Norway); K.K. Haratz (Israel)*
- 16:00      How sure am I that this vermis is normal?  
*D. Paladini (Italy); L. Guibaud (France)*
- 16:30      Normal and pathological development of the midbrain-hindbrain  
*K.K. Haratz (Israel); G. Kasprian (Austria)*
- 17:00      Follow-up of infants diagnoses with brain anomalies prenatally: a plea for a standard evaluation of outcomes  
*F. D'Antonio (Norway)*
- 17:15      Discussion

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- |                    |   |                                  |
|--------------------|---|----------------------------------|
| <b>16:00-17:30</b> | <b>Workshop</b><br><b>Ultrasound in the labour ward: why and how</b><br><i>Chairs: T. Ghi (Italy); T.M. Eggebø (Norway)</i>   | <b>Convention<br/>Hall II</b>    |
| 16:00              | <b>LIVE SCAN</b> How to scan in active labour? [industry supported]<br><i>T.M. Eggebø (Norway)</i>  |                                  |
| 16:15              | Ultrasound in labour arrest: malpositions and malpresentations<br><i>T. Ghi (Italy)</i>   |                                  |
| 16:30              | Ultrasound in women with slow progress in the second stage:<br>Caesarean section, instrumental delivery or wait for spontaneous delivery?<br><i>B.H. Kahrs (Norway)</i> |                                  |
| 16:45              | Ultrasound in postpartum hemorrhage: spotting the cause, solving the problem<br><i>W. Henrich (Germany)</i>   |                                  |
| 17:00              | Novel applications of ultrasound in labour<br><i>B. Tutschek (Switzerland)</i>  |                                  |
| 17:15              | Antepartum prediction of dystocia<br><i>G. Rizzo (Italy)</i>  |                                  |
| <b>16:00-17:30</b> | <b>Workshop</b><br><b>Ultrasound, fertility preservation and fertility sparing surgery</b><br><i>Chairs: S. Saso (United Kingdom); A.C. Testa (Italy)</i>               | <b>Convention<br/>Hall I (D)</b> |
| 16:00              | Oncofertility: past present and future<br><i>S. Saso (United Kingdom)</i>   |                                  |
| 16:20              | How to carry out ultrasound-guided laparoscopic surgery: case<br>examples and videos<br><i>J. Yazbek (United Kingdom)</i>   |                                  |
| 16:40              | Avoiding damage to the uterus: ultrasound-guided procedures and the uterus<br><i>D. Jurkovic (United Kingdom)</i>   |                                  |
| 17:00              | Managing incidental findings found on ultrasound scans: when can<br>we safely discharge from follow-up or at least avoid surgery<br><i>L. Valentin (Sweden)</i>         |                                  |
| 17:20              | Discussion  |                                  |
| <b>16:00-17:30</b> | <b>Workshop</b><br><b>Updates on infections during pregnancy</b><br><i>Chairs: F. Da Silva Costa (Australia); S. Eik-Nes (Norway)</i>                                   | <b>Estrel Hall<br/>(A+B)</b>     |
| 16:00              | Zika virus epidemic in Brazil: what happened?<br><i>C. Coutinho (Brazil)</i>  |                                  |

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- 16:20            CMV: what is new in antiviral therapy  
*Y. Ville (France)*
- 16:40            CMV: what is new in immunoglobulin therapy  
*K.O. Kagan (Germany)*
- 17:00            Update on toxoplasmosis  
*M. Meyer-Wittkopf (Germany)*
- 17:20            Discussion



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**Hubs**

		Foyer 3:
<b>08:15-09:15</b>	<b>Interactive Hubs</b> ISUOG Basic Training series II <i>Chair: R. Abu-Rustum (United States)</i>	<b>HUB 2</b>
	A practical guide for 3D imaging in routine gynecological practice <i>Chair: S. Meagher (Australia)</i>	<b>HUB 3</b>
<b>09:40-10:20</b>	<b>Poster discussion (P)</b> P09: First, second and third trimester screening <i>Chairs: E.A. Hernandez-Andrade (United States); H. Shah (UK)</i>	<b>HUB 1</b>
	<b>Interactive:</b> Improving perinatal outcomes <i>Chair: A. Khurana (India)</i>	<b>HUB 2</b>
	<b>Poster discussions(P)</b> P10: Using ultrasound to evaluate women with pelvic pain and possible endometriosis <i>Chairs: G. Condous (Australia); C. Exacoustos (Italy)</i>	<b>HUB 3</b>
	P11: Multiple pregnancy <i>Chairs: A. Gagnon (Canada); E. Kalafat (Turkey)</i>	<b>HUB 4</b>
<b>10:45-11:45</b>	<b>Interactive Hubs</b> In conversation with <i>A. Khalil</i> : medico-legal cases	<b>HUB 1</b>
	In conversation with <i>G. Malinger</i> : why do I (NOT) need MRI?	<b>HUB 2</b>
	In conversation with <i>K.O. Kagan</i> : fetal anomaly screening in the first trimester	<b>HUB 3</b>
	<b>Interactive</b> Meet the Ambassadors <i>Chairs: TBC; F. Ross (United Kingdom)</i>	<b>HUB 4</b>
<b>12:10-12:50</b>	<b>Poster discussions (P)</b> P12: Fetal interventions and therapy: complicated monochorionic pregnancy, spina bifida and other conditions <i>Chairs: A. Johnson (United States); C. Wohlmuth (Austria)</i>	<b>HUB 1</b>
	P13: Hypertension in pregnancy <i>Chairs: L. Poon (Hong Kong); M. Gil (Spain)</i>	<b>HUB 2</b>
	P14: Managing early pregnancy complications <i>Chairs: E. Kirk; S. Bobdiwala (United Kingdom)</i>	<b>HUB 3</b>
	P15: Fetal growth: Doppler and other functional assessment <i>Chairs: J. Hyett (Australia); K. Maršál (Sweden)</i>	<b>HUB 4</b>

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13:10-14:10	<b>Guideline Hubs</b>	
	Russian <i>Chair: F. Ushakov (United Kingdom)</i>	HUB 1
	Spanish <i>Chairs: E Pianigiani; J. Alcazar (Spain)</i>	HUB 2
	<b>Interactive Hubs</b>	
	Pitfalls and pearls of sonohysterography <i>Chair: S.R. Goldstein (United States)</i>	HUB 3
15:20-16:20	False-positive images at the mid-term scan <i>Chair: P. Boukobza (France)</i>	HUB 4
	Ultrasound images from around the world <i>Chair: A. Sigue (Philippines)</i>	HUB 3
	<b>Interactive Hubs</b>	
	Meet and greet: PSUOG meets ISUOG <i>Chair: A. Lopez (Philippines)</i>	HUB 1
	Education on ultrasound in obstetrics and gynecology <i>Chairs: A. Athanasiadis; G. Daskalakis; N. Papantoniou (Greece)</i>	HUB 2
16:25-17:25	Debate: should methotrexate be given to treat ectopic pregnancy? <i>Chair: A. Cameron (United Kingdom)</i>	HUB 3
	Romanian Society <i>Chairs: R. Vladareanu; D. Muresan (Romania)</i>	HUB 4
	<b>Interactive Hubs</b>	
	Techniques for avoiding musculoskeletal and back injuries whilst scanning: ergonomics for sonologists and sonographers <i>Chairs: S.C. Westerway; D. Nicholls (Australia)</i>	HUB 1
	Translational research for clinicians' work in gynecological ultrasound <i>Chairs: S. Bobdiwala; C. Kyriacou (United Kingdom)</i>	HUB 3
17:30-18:00	<b>New for 2019!</b>	HUB 1
	Key messages from Tuesday: Convention Hall II <i>Chairs: E. Eixarch (Spain); C. Wohlmuth (Austria)</i>	
	Key messages from Tuesday: Convention Hall I (D) <i>Chairs: J. Karim (United Kingdom); A. Dall'Asta (Italy)</i>	HUB 2
	Key messages from Tuesday: Estrel Hall (A+B) <i>Chairs: F. Bardi (Netherlands); D.L. Rolnik (Australia)</i>	HUB 4

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