



28th World Congress on Ultrasound in Obstetrics and Gynecology

20 – 24 October 2018, Singapore

Incorporating ASUM 2018

Scientific program

Saturday 20 October 2018

08:45 - 16:20	PCC: From genetics to obstetric management: essential genetics in practice
08:45	Session 1
08:45	Welcome and Introduction
08:55	Principles of screening and diagnosis
09:15	<i>Aneuploidy, translocation, variation, point mutations: what is happening to our chromosomes?</i>
09:45	<i>Confounding biological factors for your non- invasive prenatal tests</i>
10:15	Refreshment break
10:45	Session 2
10:45	Cell free DNA in practice: learning from difficult cases
11:15	Karyotype, microarray and exome sequencing
11:45	Ethical considerations around prenatal, preimplantation and preconception testing
12:15	<i>Lunch</i>
13:05	Session 3
13:05	Preimplantation genetic screening and preimplantation genetic diagnosis
13:35	From genetics to obstetric management: insights into obstetrics complications

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- 14:05 Sequencing cell-free DNA for single gene disorders: next 'must-have' prenatal screening tool?
- 14:35 *Refreshment break*
- 15:05 *Session 4*
- 15:05 Genetic evaluation of fetal sonographic anomalies
- 15:35 From genetics to ultrasound: insights into congenital heart defects
- 15:35 Genetics testing and your legal obligations
- 16:05 What to tell your patients – panel with case studies
- 16:35 *End of the course*
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- 08:45 - 17:00 PCC: ISUOG Basic Training: a practical approach to the obgyn ultrasound examination**
- 08:45 Session 1
- 08:45 Introduction and overview of the Basic Training Program
- 09:00 Pre-course test
- 09:15 "Principles of Ultrasound Imaging" film
- 09:30 Transducers, image production, knobology and scanning planes
- 10:00 The 6-step approach
- 10:30 *Mid-morning coffee break*
- 11:00 *Session 2*

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- 11:00 Fetal biometry: dating, assessing size and estimating fetal weight
- 11:30 Assessing the placenta and amniotic fluid
- 12:00 *Lunch*
- 13:15 *Session 3*
- 13:15 The 20 + 2 Planes
- 13:45 Distinguishing between normal and abnormal appearances of the fetal anatomy
- 14:15 The basics of a gynaecology ultrasound (TA and TV; walk-through)
- 14:45 *Mid afternoon tea break*
- 15:15 *Session 4*
- 15:15 Examining the uterus: endometrium, myometrium
- 15:45 Examining the ovary and adnexa
- 16:15 Quality control process for operators and programs
- 16:45 *Post-course test*
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- 09:00 - 17:15 PCC: Ultrasound for the diagnosis and pre-surgical staging of deep endometriosis (DIE)**
- 09:00 Welcome
- 09:00 Session 1

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- 09:00 International deep endometriosis analysis
consensus statement
- 09:30 Accuracy of different imaging methods: TVS, CT
and MRI
- 10:00 Soft markers to predict superficial pelvic
endometriosis
- 10:30 *Refreshment break*
- 11:00 *Session 2*
- 11:00 Ovarian endometriomata changes during
pregnancy
- 11:30 Pouch of Douglas assessment and implications on
surgical planning
- 12:00 Video session
- 12:15 *Lunch*
- 13:15 *Session 3*
- 13:15 Endometriosis of the urinary tract
- 13:45 Imaging of uterosacral ligaments, posterior vaginal
fornix and rectovaginal septum
- 14:15 Deep endometriosis involving the rectum,
rectosigmoid: to bowel prep or not to bowel prep, to
gel or not to gel
- 14:45 *Video session*
- 15:00 *Refreshment break*
- 15:30 *Session 4*

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- 15:30 Ultrasound based endometriosis staging system
(UBESS) in the United Kingdom and Australasia
- 16:00 Conclusions and summary

Sunday 21 October 2018

Plenary 1: Keynote lectures

- 08:30 Welcome from the ISUOG President
- 08:35 What is the evidence about evidence based
medicine
- 09:00 Are women wiser: women's health at the global
level
- 09:25 Highlights of my time as Editor in Chief
- 09:45 - 10:25 **ISUOG Achievements 2017 incorporating the
Annual General Meeting**
- 10:05 - 10:10 **EP01: EP: Abnormally invasive placenta** **Electronic
posters**
- 10:10 - 10:15 **EP02: EP: Screening for pregnancy
complications I** **Electronic
posters**

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10:15 - 10:20	EP03: EP: Screening for pregnancy complications II	Electronic posters
10:20 - 10:25	EP04: EP: Assessing function related to growth	Electronic posters
10:25 - 10:30	EP05: EP: Fetal growth	Electronic posters
10:30 - 10:35	EP06: EP: Fetal structural anomalies	Electronic posters
10:35 - 10:40	EP07: EP: First trimester studies and reports	Electronic posters
10:40 - 10:45	EP08: EP: Fetal brain I	Electronic posters
10:45 - 10:50	EP09: EP: Fetal brain II	Electronic posters
10:50 - 10:55	EP10: EP: Fetal heart	Electronic posters
10:55 - 11:00	EP11: EP: Fetal abnormalities and syndromes	Electronic posters
11:00 - 12:15	Plenary 2: Award lectures and Top Abstracts	
11:00	Stuart Campbell lecture: How should we assess the risk of pre-eclampsia	

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11:25	Cervical pessary vs vaginal progesterone for the prevention of preterm birth in women with twins and a cervix	OC01.01
11:32	<i>Discussion</i>	
11:35	Balancing risks of surgery with risks of conservative management of benign adnexal masses: results from the postmenopausal follow-up arm of IOTA5	OC01.02
11:42	<i>Discussion</i>	
11:45	Added value of fetal growth velocity and Dopplers to biometry in identifying small for gestational age fetuses with adverse perinatal outcome at term	OC01.03
11:52	<i>Discussion</i>	
11:55	A multi-centre trial on the performance of a two-step triage protocol based on initial serum progesterone and serial hCG used to manage pregnancies of unknown location (PUL)	OC01.04
12:02	<i>Discussion</i>	
12:05	Follow-up of children prenatally diagnosed with isolated mild ventriculomegaly	OC01.05
12:12	<i>Discussion</i>	
11:00 - 11:05	EP12: EP: Multiple pregnancies	Electronic posters

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11:05 - 11:10	EP13: EP: Safety and education	Electronic posters
11:10 - 11:15	EP14: EP: Ultrasound in the labour ward	Electronic posters
11:15 - 11:20	EP15: EP: Bleeding, endometrial and myometrial pathology	Electronic posters
11:20 - 11:25	EP16: EP: Early pregnancy complications	Electronic posters
11:25 - 11:30	EP17: EP: Early pregnancy development and placentation	Electronic posters
11:30 - 11:35	EP18: EP: Imaging in oncology	Electronic posters
11:35 - 11:40	EP19: EP: Managing ovarian masses	Electronic posters
11:40 - 11:45	EP20: EP: Pelvic pain and endometriosis	Electronic posters
11:45 - 11:50	EP21: EP: Reproductive medicine	Electronic posters
11:50 - 11:55	EP22: EP: Urogynecology	Electronic posters

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13:45 - 15:15 WS: NIPT: what technique can do and what clinicians should prescribe

13:45 What can we see with NIPT

14:05 What are the limitations of NIPT

14:25 NIPT vs combined screening: the current state of play

14:45 Risk of miscarriage
L. Salomon (France)

15:05 *Panel discussion*

WS: Ultrasound in preventing the great obstetric problems

13:45 Pre-eclampsia

14:05 Preterm birth

14:25 Stillbirth

14:45 Maternal mortality: how could ultrasound help?

15:05 *Discussion*

WS: Managing ovarian masses: how to classify masses using IOTA terminology, rules and models - lessons from the IOTA study

13:45 How to describe an adnexal mass: IOTA terms and definitions

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- 14:05 What are IOTA easy descriptors and simple rules:
 how to use them
- 14:25 The IOTA ADNEX model: what are the variables
 and what is the test performance?
- 14:45 Case examples using IOTA ADNEX and simple
 rules
- 15:05 *Panel discussion*
- 15:45 - 17:35 Plenary 3: Awards and plenaries**
- 15:45 Presentation of the Ian Donald Gold Medal
- 15:50 Acceptance of the Ian Donald Gold Medal and
 Gold Medal Lecture: Title TBC
- 16:15 The psychological consequences of early
 pregnancy complications
- 16:40 From obstetrics to nuclear disarmament
- 17:05 Ultrasound in a natural disaster, the 2011
 Christchurch earthquakes

Monday 22 October 2018

- 07:30 - 08:10 MC: How I decide when to deliver growth
 restricted babies**
- 07:30 How I decide when to deliver growth restricted
 babies

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MC: Fetal brain: optimal imaging every time

07:30 Fetal brain: optimal imaging every time

MC: Pelvic floor ultrasound: diagnosis and management

07:30 Pelvic floor ultrasound: diagnosis and management

MC: 6 steps to easy ultrasound

07:30 6 steps to easy ultrasound

08:15 - 09:35 OC: Ultrasound and cfDNA working together in the first trimester of pregnancy

08:15 Live scan: First trimester ultrasound: beyond the basics [supported by Toshiba]

08:35 The evolution of ultrasound-indicated prenatal diagnosis over the past two decades: a state-wide retrospective cohort study from 1994-2016 OC02.01

08:40 *Discussion*

08:43 Pregnancies at increased risk at first trimester screening, is searching for trisomies enough? Experiences from the Swedish Pregnancy Register OC02.02

08:48 Discussion

08:51 Utilization of cfDNA testing in a publicly funded contingent prenatal screening model OC02.03

08:56 Discussion

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08:59	Non-commercial cell-free DNA testing in routine clinical aneuploidy screening: a 3-year experience	OC02.04
09:04	Discussion	
09:07	The influence of body mass index on fetal fraction increase and test failure rate in prenatal cell-free DNA testing	OC02.05
09:12	Discussion	
09:15	Haplotype-based non-invasive prenatal testing for Duchenne Muscular Dystrophy: a pilot study in south China	OC02.06
09:20	Discussion	
09:23	Risk of miscarriage in women conceiving after medically assisted reproduction (MAR) with an ultrasound verified live pregnancy at gestational week 7	OC02.07
09:28	Discussion	

OC: Using ultrasound to predict outcomes in fetal anomalies

08:15	Invited talk: can we modify the natural history of fetal anomalies	
08:35	Gastro-cardiac angle - A novel method to predict liver herniation in left congenital diaphragmatic hernia	OC03.01
08:40	<i>Discussion</i>	

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08:43	Fetal stomach position for prognostication in left-sided congenital diaphragmatic hernia (CDH): a systematic review and meta-analysis	OC03.02
08:48	Discussion	
08:51	Inter-rater agreement for sonographic stomach position classification in fetal diaphragmatic hernia across the North American Fetal Therapy Network	OC03.03
08:56	Discussion	
08:59	Prenatal assessment and the prognosis in the fetuses with congenital pulmonary airway malformation	OC03.04
09:04	Discussion	
09:07	A novel index of fetal antero-posterior cerebella diameter and cavum septi pellucidi ratio for prenatal diagnosis of trisomy 18	OC03.05
09:12	Discussion	
09:15	Prenatal diagnosis of fetal ocular defects: a 10-year experience	OC03.06
09:20	Discussion	
09:23	Clinical monitoring of sacrococcygeal teratoma using vascularization index and modeling venous return	OC03.07
09:28	Invited talk	
09:28	<i>Discussion</i>	
09:31	Invited talk	

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OC: Managing ovarian masses

08:15	Can we stratify risk to guide management? Developing the O-RADS system in the United States to guide management	
08:35	External validation of IOTA three-step strategy for assessment of adnexal masses	OC04.01
08:40	<i>Discussion</i>	
08:43	Diagnostic performance of International Ovarian Tumour Analysis (IOTA) logistic regression model (LR2) for adnexal masses classification in a tertiary centre	OC04.02
08:48	<i>Discussion</i>	
08:51	Ultrasound and histopathologic correlation of ovarian cystadenofibromas: the pathognomonic “shadow sign”	OC04.03
08:56	<i>Discussion</i>	
08:59	Is the introduction of Magnetic Resonance in the diagnostic workout of adnexal masses just an increase of costs when IOTA Simple Rules are applied?	OC04.04
09:04	<i>Discussion</i>	
09:07	Management of ovarian masses during pregnancy in a London university hospital: a cohort study	OC04.05
09:12	<i>Discussion</i>	
09:15	Detection rate and additional diagnostic value of the IOTA-ADNEX model compared to ultrasound pattern recognition diagnosing borderline ovarian tumors	OC04.06

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09:20	Discussion	
09:23	Microcysts: a new ultrasound marker of borderline ovarian tumors of low malignant potential	OC04.07
09:28	Discussion	
	OC: Innovation in ultrasound: teaching humans, training machines and keeping patients safe	
08:15	An AI system to support sonologists during fetal ultrasound anomaly screening	OC05.01
08:20	<i>Discussion</i>	
08:23	Virtual reality objects improve learning efficiency and sustained abilities in fetal ultrasound	OC05.02
08:28	Discussion	
08:31	Virtual reality projection of fetal cardiac anomalies from three-dimensional prenatal ultrasound data	OC05.03
08:36	Discussion	
08:39	Developing a SIMULINK mathematical model to simulate the fetal cardiovascular system (CVS)	OC05.04
08:44	Discussion	
08:47	Impact and Uptake of ISUOG's basic training program	OC05.05
08:52	Discussion	

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08:55	Improving precision of second trimester biometry	OC05.06
09:00	Discussion	
09:03	Transvaginal ultrasound probes are human papillomavirus-free following low level disinfection: a survey of 667 observations	OC05.07
09:08	Discussion	

HUB01: HUB: Special interest group heart

HUB02: HUB: WATOG legal, ethical and psychological issues behind a simple ultrasound scan

09:30 - 10:30 **Courses Task Force**

09:40 - 10:20 **OP: The genomics revolution**

OP: Prenatal diagnosis

OP: Managing ovarian masses

OP: Technologies to improve our practice

P01: P: Cardiac genetics and screening

P02: P: Challenges In fetal diagnosis

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P03: P: Early pregnancy care

P04: P: All about fetal growth

10:25 - 10:50 HUB03: HUB: In conversation with Francesc Figueras

HUB04: HUB: In conversation with Prashant Acharya

HUB05: HUB: In conversation with Liona Poon

HUB06: HUB: In conversation with Gregory DeVore

10:45 - 12:05 OC: Ultrasound and MRI of the fetal CNS

10:45 Live scan: I don't need MRI: tips and tricks for the greatest ultrasound pics [supported by Samsung]

11:05 Quantitative MRI analyses of regional brain growth and cerebral sulcal development in living fetuses with isolated ventriculomegaly and Down syndrome. OC06.01

11:10 *Discussion*

11:13 Quantitative and qualitative evaluation of the visibility of brain lamination on T2-weighted and fluid-attenuated inversion recovery imaging OC06.02

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11:18	Discussion	
11:21	Fetal MRI findings in a cohort of 26 cases of prenatally diagnosed CHARGE syndrome	OC06.03
11:26	Discussion	
11:29	Application of prenatal ultrasound combined with fast MRI in the diagnosis of fetal agenesis of corpus callosum	OC06.04
11:34	Discussion	
11:37	Prenatal cerebellar growth trajectory as novel biomarker for body composition of the newborn	OC06.05
11:42	Discussion	
11:45	Arachnoid cyst; prenatal diagnosis and outcome	OC06.06
11:50	Discussion	
11:53	'Supersize me' gestational diabetes mellitus results in higher fetal brain volumes due to increased cortical volumes: an age matched comparison	OC06.07
11:58	Discussion	

OC: Improving outcomes in twin pregnancies

10:45	Modern management of twin pregnancy	
11:05	Perinatal mortality and morbidity in twin pregnancies with selective fetal growth restriction according to their management: a meta-analysis	OC07.01
11:10	<i>Discussion</i>	

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11:13	A double-blind placebo controlled randomized trial on using progesterone from first trimester to reduce the incidence of preterm birth in ICSI twins	OC07.02
11:18	Discussion	
11:21	The predictive accuracy of the STORK chorionicity-specific twin growth charts for stillbirth: a validation study	OC07.03
11:26	Discussion	
11:29	Twin pregnancy outcome	OC07.04 & OC07.05
11:34	Can 2D and 3D placental measurements in first trimester predict early preterm delivery in twin pregnancies?	OC07.04
11:34	Can 2D and 3D placental measurements in first trimester predict severe pre-eclampsia in twins?	OC07.05
11:34	<i>Discussion</i>	
11:37	The association between crown—rump length discordance in the first trimester and adverse clinical prognosis in normal dichorionic twins	OC07.06
11:42	Discussion	
11:45	Pregnancy outcomes of multifetal pregnancy reduction in women with dichorionic triamniotic triplets after in vitro fertilization-embryo transfer	OC07.07
11:50	Discussion	
11:53	Variations in antenatal surveillance and patient education in monochorionic-diamniotic (MCDA) twins	OC07.08

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11:58	Discussion	
	OC: Ultrasound to help manage the oncology patient	
10:45	Comparing Ultrasound, CT and WB-DWI/MRI for staging ovarian cancer	OC08.01
11:00	Preoperative staging of ovarian cancer: comparison between Ultrasound, CT and WB-DWI/MRI	OC08.01
11:00	A preoperative risk model with ultrasound variables to assess lymph node metastasis in endometrial cancer patients: a model development and validation study by the IETA group	OC08.02
11:05	Discussion	
11:08	Subjective and objective strategies to assess myometrial invasion and cervical stromal invasion	OC08.03
11:13	Discussion	
11:16	Pre-operative prediction of recurrence using sonography, demographics, and the proactive molecular risk classifier for endometrial cancer (ProMisE)	OC08.04
11:21	Discussion	
11:24	The efficacy of pre-operative ultrasound in detecting uterine sarcoma prior to myomectomy	OC08.05
11:29	Discussion	

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11:32	Added value of sonography to pre-operative evaluation of advanced stage epithelial ovarian cancer - selecting treatment options	OC08.06
11:37	Discussion	
11:40	Ultrasound-based score for predicting debulking surgery outcome in IIB-IV stage epithelial ovarian cancer	OC08.07
11:45	Discussion	
11:48	Clinical and ultrasound characteristics of the microcystic elongated and fragmented (MELF) pattern in endometrial cancer according to the International Endometrial Tumor Analysis (IETA) criteria	OC08.08
11:53	Discussion	
11:56	The clinicopathological traits and ultrasound diagnosis of malignant lymphomas of the female genital system	OC08.09
12:01	Discussion	
10:45 - 11:40	OC: Abnormally invasive placenta	
10:45	Morbidly adherent placenta: from imaging to management	OC09.01
11:05	Outcome analysis in 133 cases of surgery confirmed cases of abnormally invasive placenta (AIP): do ultrasound descriptors of AIP predict prognosis?	OC09.01
11:05	The value of contrast-enhanced ultrasound (CEUS) in evaluating the effect of uterine artery embolisation in morbidly adherent placenta after delivery	OC09.02

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11:10	Discussion	
11:13	Maternal and perinatal outcomes in pregnancies complicated by Morbid Adherent Placenta in a low resource setting: 5-year analysis)	OC09.03
11:18	Discussion	
11:21	Diagnosis of placenta accreta starts at first trimester: is it resource intensive	OC09.04
11:26	Discussion	
11:29	MRI findings in placenta accreta spectrum disorders: correlation with ultrasound and anatomopathological findings	OC09.05
11:34	Discussion	

HUB07: HUB: Special interest group Doppler

**HUB08: HUB: Evaluating the abdomen and GU:
the Basic Training approach**

11:40 - 12:05 OP: Abnormally invasive placenta: placenta accreta and more

12:10 - 12:50 OP: Toward better fetal CNS imaging

OP: Improving outcomes in twin pregnancy

OP: Ultrasound to help manage the oncology patient

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**OP: Screening for pregnancy complications:
infection and prematurity**

**P05: P: Fetal anomalies from the first trimester
onwards**

P06: P: Ultrasound in the labour ward

**P07: P: Small group masterclass: investigating
women with abnormal bleeding**

13:00 - 14:00 HUB09: HUB: Guidelines Chinese

HUB10: HUB: Guidelines Spanish

HUB11: HUB: Guidelines Indonesian

HUB12: HUB: Guidelines French

**OC: The challenge of screening in pregnancy:
pre-eclampsia, IUGR and preterm birth**

**14:15 ISUOG guidelines: screening for and follow up of
pre-eclampsia**

**14:31 ASPRE trial: incidence of preterm pre-eclampsia OC10.01
in patients fulfilling ACOG and NICE criteria
according to risk by the FMF algorithm**

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14:36	Discussion	
14:39	Implementation of first trimester screening for PE and FGR in low resource settings	OC10.02
14:44	Discussion	
14:47	Prediction of small for gestational age with severe adverse perinatal outcome or neonatal morbidity at term	OC10.03
14:52	Discussion	
14:55	Utility of orbital and central retinal artery Doppler in first trimester for prediction of pre-eclampsia and also to elucidate the underlying mechanism of abnormal maternal hemodynamics in pre-eclampsia	OC10.04
15:00	Discussion	
15:03	How effective are we at detecting small for gestational age infants?	OC10.05
15:08	Discussion	
15:11	Complement biomarker C5b-9 is associated with abnormal umbilical and MCA artery Doppler in hypertensive disease in pregnancy < 34 wk: the COPA study	OC10.06
15:16	Discussion	
15:19	17a-hydroxyprogesterone caproate for the prevention of recurrent preterm birth: systematic review and meta-analysis	OC10.07
15:24	Discussion	
15:27	The risk of preterm birth in vanishing twin: a multicenter prospective cohort study	OC10.08

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15:32	Discussion	
OC: Cardiac function and improved screening		
14:15	Tips and tricks for imaging the fetal heart	
14:35	Why congenital heart defects are being missed	OC11.01
14:40	Discussion	
14:43	Outcomes of 271 Anti-Ro antibody positive pregnancies surveilled by echocardiography and home Doppler monitoring: an international multicenter prospective study	OC11.02
14:48	Discussion	
14:51	Prenatal prognostic markers of short and long term outcomes in immune complete atrioventricular block	OC11.03
14:56	Discussion	
14:59	Fetal surveillance of anti-Ro/anti-La affected pregnancies: is there a consensus? Results of an international survey	OC11.04
15:04	Discussion	
15:07	Comparison of clinical manifestation in fetuses with Ebstein anomaly and pulmonary atresia with intact ventricular septum	OC11.05
15:12	Discussion	
15:15	Annular plane systolic excursion z-score in evaluation of heart systolic function of fetus with heart failure	OC11.06

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15:20	Discussion	
15:23	Prenatal identification of atrioventricular septal defect and associated genomic abnormality by fetal echocardiography and whole genome sequencing	OC11.07
15:28	Discussion	
OC: Investigating bleeding: endometrial and myometrial pathology		
14:15	Reporting the endometrium and intracavitary lesions using the IETA terminology: results of the IETA-1 multicentric prospective study	OC12.01
14:30	Reporting the endometrium and intracavitary lesions using the IETA terminology: results of the IETA-1 multicentric prospective study	OC12.01
14:30	A comparison of demographic characteristics between women with benign and malignant endometrium: results of the IETA-1 multicentre prospective study.	OC12.02
14:35	Discussion	
14:38	An ultrasound-based algorithm to determine the likelihood of various causes of abnormal uterine bleeding: a proposal by the IETA group	OC12.03
14:43	Discussion	
14:46	IETA prognostic markers of malignancy at sonohysterography in post-menopausal patients with post-menopausal bleeding and thickened endometrium at transvaginal sonography	OC12.04
14:51	Discussion	

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14:54	The impact of obesity on clinical and sonographic findings among women with postmenopausal bleeding	OC12.05
14:59	Discussion	
15:02	Validation of objective measurements to predict myometrial or cervical stromal invasion and prediction models to predict high risk endometrial cancer	OC12.06
15:07	Discussion	
15:10	Development of a clinical prediction model for diagnosing adenomyosis	OC12.07
15:15	Discussion	
15:18	High-intensity focused ultrasound of uterine fibroids: the role histogram parameters of quantitative T1 perfusion in predicting treatment outcome	OC12.08
15:23	Discussion	

WS: ISUOG Basic Training: train the trainer

14:15	Understanding the ISUOG vision and the BT mission: ISUOG's role in training and the BT guideline	
14:20	ISUOG BT 4-step approach: understanding program structure, phases (incl assessments and certification), partners	
14:30	Introducing the BT theoretical component: 4 day components - PowerPoints, mode of delivery	
14:35	Introducing the BT practical component: what is required to demonstrate skill	

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- 14:40 The role of simulation: where available how can we use it?
- 14:45 Teaching Basic Training: the challenges, the level and the continuity in teaching
- 14:50 Basic Training resources: online platform, beaming, courses
- 14:55 Applying to have a local BT course delivered: *how, trainers, costs
- 15:00 What works, what doesn't, Lebanon, Malta, Chennai

WS: Effective screening for congenital heart disease

- 16:00 Live scan: ISUOG guidelines in practice [supported by Toshiba]
- 16:20 Abnormalities of the four chamber view: from anatomy to ultrasound
- 16:40 How to diagnose TGA and other abnormalities of the outflow tracts
- 17:00 Image quiz
- 17:20 Discussion

WS: Identifying and managing fetal growth restriction

- 16:00 FGR: from adaptation to maladaptation

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- 16:20 Early versus late growth restriction: are they too different conditions
- 16:40 Monitoring parameters and their strengths and weaknesses
- 17:00 Management dilemmas: real life cases
- 17:20 Discussion

WS: Using ultrasound to help manage patient with a possible gynecological malignancy (imaging in oncology)

- 16:00 Imaging metastatic disease to and from the ovary
- 16:20 The ultrasound features of some of the more rare adnexal masses: including solid ovarian lesions
- 16:40 How to use ultrasound to determine the extent of cervical and endometrial cancer: practical advice and case examples
- 17:00 What's in a papillation: what is the relevance of cyst wall irregularities and solid projections into ovarian cyst? Are they always a concern for malignancy?
- 17:20 Discussion

WS: Ultrasound for everyone, everywhere: is it possible?

- 16:00 Clinical problems of lack of ultrasound
- 16:20 Is implementation of WHO guidelines possible?

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- 16:40 Are there undesired effects of ultrasound?
- 17:00 Technological solutions: can artificial intelligence help?
- 17:20 Discussion

Tuesday 23 October 2018

07:30 - 08:10 MC: Twin pregnancy, double the trouble

07:30 Twins

MC: What is the value of a first trimester scan in 2018

07:30 What is the value of a first trimester scan in 2018

MC: Cases I have seen: classic examples and some you may not see so often

07:30 Case examples

MC: How I use ultrasound to make decisions on the labour ward

07:30 How I use ultrasound to make decisions on the labour ward

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08:15 - 09:35 OC: Cardiac physiology

08:15	CHD: from fetus to newborn, from ultrasound to MRI	
08:35	Annular plane systolic excursion z-scores in evaluation of ventricle systolic function of fetuses with Ebstein anomaly	OC13.01
08:40	Discussion	
08:43	The relationship between indices of circulatory resistance and head circumference in the fetus with congenital heart disease	OC13.02
08:48	Discussion	
08:51	Maternal hyperoxygenation during fetal doppler echocardiography provides physiological insight in congenital heart disease	OC13.03
08:56	Discussion	
08:59	Fetal cardiac remodeling in pregnancies complicated by pre-eclampsia with and without fetal growth restriction	OC13.04
09:04	Discussion	
09:07	Aortic coarctation: a comprehensive biomechanical analysis of shape, size, and function of the fetal heart	OC13.05
09:12	Discussion	
09:15	Myocardial function in fetuses with lower urinary tract obstruction: Is there a cardiac remodeling effect?	OC13.06

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- 09:20 Discussion
- 09:23 The impact of additional anomalies on head growth in fetuses with congenital heart defects OC13.07
- 09:28 Discussion

OC: Impact of fetal interventions

- 08:15 The future of fetal surgery
- 08:35 Do chorionic villus sampling (CVS) or amniocentesis (AC) induce rhesus immunization? An evaluation of a cohort with no prophylaxis after CVS or AC OC14.01
- 08:40 Discussion
- 08:43 Percutaneous fetal aortic valvuloplasty for critical aortic stenosis: prenatal and postnatal outcomes in the last two years OC14.02
- 08:48 Discussion
- 08:51 Brain microstructural assessment by diffusion weighted imaging (DWI) in fetuses and infants that underwent fetoscopic or open neural tube defect repair OC14.03
- 08:56 Brain abnormalities in fetuses and infants that underwent a prenatal neural tube defect (NTD) repair using a fetoscopic and open approach OC14.04
- 09:01 Discussion

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09:04	Comparison of fetal outcome in lower urinary tract obstruction treated with the Harrison® vs. Somatex® vesicoamniotic shunt < 17+0 weeks	OC14.05
09:09	Discussion	
09:12	The risks of the Solomon technique of fetoscopic laser photocoagulation for twin-twin transfusion syndrome	OC14.06
09:17	Discussion	
09:20	Ultrasound measured lung size in severe congenital diaphragmatic hernia (CDH) after fetoscopic tracheal occlusion (FETO)	OC14.07
09:25	3D ultrasound-based patient-matched models for surgical rehearsal of fetoscopic myelomeningocele repair	OC14.08
09:30	Discussion	

OC: Ultrasound and the investigation of pelvic pain and management of endometriosis

08:15	How ultrasound governs my surgical practice for endometriosis	
08:35	External validation of the ultrasound based endometriosis scoring system (UBESS)	OC15.01
08:40	Discussion	
08:43	Deep endometriosis assessment on ultrasound and MRI as defined by international deep endometriosis analysis (IDEA) group (diagnostic accuracy study)	OC15.02
08:48	Discussion	

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08:51	Pelvic vein thrombosis and associated pelvic abnormalities	OC15.03
08:56	Discussion	
08:59	Predicting the type of bowel resection in women with DIE involving the recto-sigmoid using enhanced transvaginal ultrasound	OC15.04
09:04	Discussion	
09:07	Prevalence of deep infiltrating endometriosis in patients with endometriotic ovarian cyst	OC15.05
09:12	Discussion	
09:15	Diagnosis of uterosacral ligament endometriosis by transvaginal ultrasonography	OC15.06
09:20	Discussion	
09:23	Ultrasonographic “soft” markers for the detection of rectosigmoid endometriosis	OC15.07
09:28	Discussion	

OC: Can ultrasound improve obstetric outcomes?

08:15	Can we predict fetal compromise before labour starts?	
08:35	Sonoelastography of uterine cervix before vaginal dinoprostone (PGE2) insert for preliminary evaluation of labor induction	OC16.01
08:40	Discussion	

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08:43	Intrapartum fetal cerebroplacental Doppler ratio in first and second stage of labor in uterine rest and contractions in low-risk pregnancies	OC16.02
08:48	Discussion	
08:51	Is extending the second stage of labor in nulliparous with sonographic occiput-posterior presentation beneficial and safe?	OC16.03
08:56	Discussion	
08:59	[TRAVEL GRANT] Angle of progression at rest and on maternal pushing is associated with the mode of delivery independently from cervical dilatation	OC16.04
09:04	Discussion	
09:07	Sonographic assessment of shoulder engagement and a novel sign in early recognition of shoulder dystocia	OC16.05
09:12	Discussion	
09:15	Macrosomia: a self-fulfilling prophecy	OC16.06
09:20	Discussion	
09:23	Variations between fetal and neonatal head circumference and fetal and neonatal weight are size-dependent	OC16.07
09:28	Discussion	

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HUB13: HUB: Special interest group 3D

**HUB14: HUB: WATOG In conversation with
trainees about issues on ultrasound training**

09:40 - 10:20 OP: Fetal cardiac function

OP: Fetal interventions in twins and fetal defects

**OP: Early pregnancy, Caesarean scars and
investigating pelvic pain and management of
endometriosis**

OP: Ultrasound in the management of labour I

P08: P: Fetal congenital anomalies

P09: P: Abnormally invasive placenta

**P10: P: Diagnosing and managing myometrial
pathology: a discussion between experts and
audience based around the following topics**

P11: P: New tools for the fetal brain

**10:25 - 10:50 HUB15: HUB: In conversation with Ahmet
Baschat**

HUB16: HUB: In conversation with Daniela

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Fischerova

HUB17: HUB: In conversation with Karl Kagan

**HUB18: HUB: In conversation with Torbjorn
Eggebo**

10:45 - 12:05 OC: Fetal growth and adverse outcome

10:45	Should we abandon estimated fetal weight?	
11:05	Comparison of placental 3D power Doppler indices and volume in the first and second trimesters of pregnancy with small-for-gestational age fetuses	OC17.01
11:10	Discussion	
11:13	Implementation of the Intergrowth estimation of fetal weight for screening at 26-40 weeks in France: results of nationwide survey	OC17.02
11:18	Discussion	
11:21	Does automated fractional limb volume improve the performance of third trimester fetal weight predictions in diabetic pregnancies	OC17.03
11:26	Discussion	
11:29	Adding fetal growth velocity parameters to maternal biochemical biomarkers improves the detection of small-for-gestational-age neonates	OC17.04
11:34	Discussion	

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11:37	Increasing fetal growth velocity increases the risk of shoulder dystocia among non-macrosomic fetuses	OC17.05
11:42	Discussion	
11:45	Prediction of Caesarean section due to intrapartum dystocia using antenatal customized fetal growth charts	OC17.06
11:50	Discussion	

OC: Management of complicated monochorionic pregnancies

10:45	ISUOG twin management guidelines in practice	
11:05	Does preoperative fetal weight discordancy affect perinatal outcome following laser surgery for twin—twin transfusion syndrome? Evidence from a retrospective cohort study	OC18.01
11:10	Discussion	
11:13	Umbilical artery (UA) PI in donors is related to hypovolemia	OC18.02
11:18	Discussion	
11:21	The relationship between recipient twin's hemodynamic deterioration and ductus venosus Doppler flow in twin—twin transfusion syndrome	OC18.03
11:26	Discussion	
11:29	Short-term and long-term neurodevelopmental outcome of monochorionic monoamniotic twin pregnancy	OC18.04

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11:34	Discussion	
11:37	Postoperative cerebroplacental ratio can predict subsequent fetal demise of donor or smaller twin after fetoscopic laser surgery	OC18.05
11:42	Discussion	
11:45	Management of selective intrauterine growth restriction with abnormal Doppler in monochorionic diamniotic (MCDA) twin pregnancies	OC18.06
11:50	Discussion	
11:53	Reduced ventricular strain initiates cardiovascular compromise in monochorionic pregnancies	OC18.07
11:58	Discussion	

OC: Managing complications in early pregnancy

10:45	Avoiding diagnostic error in early pregnancy	
11:00	Cell-free DNA in the detection of chromosomal aneuploidies in early fetal demise and miscarriage	OC19.01
11:05	Discussion	
11:08	Is the presence or absence of intra-cavity fluid associated with a final diagnosis of ectopic pregnancy in women with a pregnancy of unknown location?	OC19.02
11:13	Discussion	

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11:16	Reference intervals of gestational sac, yolk sac, embryonic length and embryonic heart rate at 6-10 gestational weeks after in vitro fertilization-embryo transfer	OC19.03
11:21	Discussion	
11:24	Minimally invasive treatment of Caesarean scar and cervical pregnancies using a cervical ripening double balloon catheter: expanding the clinical series	OC19.04
11:29	Discussion	
11:32	Evaluating cut-off values for progesterone, single hCG and hCG ratio to define pregnancy viability and location in women with a pregnancy of unknown location (PUL)	OC19.05
11:37	Discussion	
11:40	Accuracy of prediction of haemoperitoneum in ectopic pregnancy	OC19.06
11:45	Discussion	
11:48	Impact of intrauterine haematoma on pregnancy outcomes	OC19.07
11:53	Discussion	
11:56	Sonographic characteristics of post-molar gestational trophoblastic neoplasia (GTN) in relation to chemoresistant disease	OC19.08
12:01	Discussion	

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12:10 - 12:50 **OP: Fetal measurement, weight estimation and
body composition**

**OP: Management of complicated monochorionic
pregnancies**

OP: Managing early pregnancy complications

OP: Ultrasound in the management of labour II

P12: P: Fetal interventions

P13: P: Heart structure and function

P14: P: Reproductive medicine

P15: P: Screening for pregnancy complications I

13:00 - 16:00 **HUB19: HUB: China task force**

13:00 - 14:00 **HUB20: HUB: CFEF French recommendation at
second trimester scan**

**HUB21: HUB: Evaluating the fetus heart and
CNS: the BT approach**

HUB22: HUB: Guidelines Russian

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14:15 - 15:50	OC: Advanced tools in prenatal diagnosis	
14:15	Live scan: Challenge Chaoui: The full anomaly scan in 15 minutes [Supported by Toshiba]	
14:35	Placental changes in fetal-MRI as a potential biomarker of cytomegalovirus Infection	OC20.01
14:40	Discussion	
14:43	Prenatal diagnosis by chromosome microarray analysis and whole-exome sequencing for fetuses with skeletal dysplasia	OC20.02
14:48	Discussion	
14:51	Objective evaluation of fetal facial morphology using a new method: facial shape index	OC20.03
14:56	Discussion	
14:59	Magnetic resonance morphological signs of fetal inflammatory response syndrome (FIRS) as potential biomarkers of cytomegalovirus infection	OC20.04
15:04	Discussion	
15:07	Image review for quality of the first trimester anomaly scan	OC20.05
15:12	Discussion	
15:15	The experience of prenatal diagnosis by ultrasound and MRI: based on 5754 case	OC20.06
15:20	Discussion	
15:23	Fetal exome sequencing: yield and limitations observed in a single tertiary center	OC20.07

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15:28	Discussion	
15:31	Imaging in congenital anomalies: from fetal development to newborn outcomes	
OC: Ventriculomegaly and congenital infections		
14:15	Fetal brain: cases that surprised me	
14:39	Sonographic spectrum of fetal cerebral ventriculomegaly: do we know all?	OC21.01
14:44	Discussion	
14:47	Brainstem malformations in severe fetal ventriculomegaly	OC21.02
14:52	Discussion	
14:55	Intracranial complications in monochorionic multiple gestations following in utero intervention: role of fetal MR Imaging	OC21.03
15:00	Discussion	
15:03	Prediction of outcome of fetal infection with cytomegalovirus (CMV)	OC21.04
15:08	Discussion	
15:11	The added value of postmortem ultrasound in the diagnosis of fetal brain abnormalities	OC21.05
15:16	Discussion	
15:19	Ultrasound prediction of symptomatic congenital Zika virus infection	OC21.06

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15:24	Discussion	
15:27	Additional value of advanced neurosonography and magnetic resonance imaging in fetuses at risk for brain damage	OC21.07
15:32	Discussion	
OC: Ultrasonography and reproductive medicine		
14:15	Solving problems in infertility patients with ultrasound: assessing ovarian reserve – was AMH overhyped? So should we stick with AFC measurements? When scanning fertility patients - how do we predict endometrial receptivity?	
14:40	Who is at risk of endometrial cavity breach at laparoscopic myomectomy?	OC22.01
14:45	Discussion	
14:48	Clinical significance of congenital uterine corporeal anomalies: a prospective observational study in unselected population	OC22.02
14:53	Discussion	
14:56	Can ovarian reserve predict the chances of live birth after one complete cycle of IVF and transfer of all frozen embryos? <i>N. Balachandren; M. Salman; D. Mavrelos</i>	OC22.03
15:01	Discussion	
15:04	Ultrasound-based strain mapping for contraction frequency in the non-pregnant uterus	OC22.04
15:09	Discussion	

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15:12 Semi-automatic analysis of vascular volume along the Fallopian tube (FT) and impact of the ovarian fimbria on Fallopian tube vascularization using confocal microtomography OC22.05

15:17 Discussion

WS: Maternal hemodynamics in pregnancy

Chairs: F. Da Silva Costa (Australia); A. Khalil

14:15 The arterial system and cardiac function in disorders of placentation

14:35 Early and late pre-eclampsia

14:55 Screening using biomarkers

15:15 Screening using maternal haemodynamics

16:00 - 17:30 WS: 3D

16:00 Embryo development by 3D

16:20 3D of the fetal face

16:40 Where 3D adds value: interesting new cases

17:00 Panel discussion

17:10 LIVE SCAN: 4D fetal echo [Supported by Samsung]

WS: Fetal infections: updates on TORCH, Zika and anything new

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- 16:00 Overview: understanding serology, detection rates, false negatives and false positives
- 16:15 Cytomegalovirus
- 16:30 Other congenital infections: Zoster, Parvo and more
- 16:45 Zika virus: latest updates
- 17:00 Toxoplasmosis
- 17:15 Case examples

WS: How to manage disorders related to implantation and Caesarean section scars in the pregnant and non-pregnant patient

- 16:00 Diagnosis and management of Caesarean Section scar pregnancy: a personal as well as the UK experience
- 16:20 How to counsel women with implantation near to, over or into a caesarean section scar and my experience of treating scar pregnancy in the USA
- 16:40 How do we manage women with a highly vascular myometrium or retained tissue in the uterus following delivery or early pregnancy loss? Are these AVM's or simply a physiological observation?
- 17:00 Abnormal bleeding and other symptoms associated with the Caesarean section scar niche in non-pregnant women: causes, nomenclature, imaging and possible treatment options
- 17:20 Minimally invasive, highly specific sonographically guided treatment by the application of a human fibrin sealant

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**WS: A masterclass with Simon Meagher: early
detection of fetal abnormalities**

Wednesday 24 October 2018

07:30 - 08:10 MC: Cardiac ultrasound: the heart of the matter

07:30 Cardiac ultrasound: the heart of the matter

MC: How to predict and prevent preterm labour

07:30 How to predict and prevent pre-term labour

**MC: IOTA terminology, rules and models to
classify ovarian masses: case examples with
audience participation!**

07:30 IOTA terminology, rules and models to classify
ovarian masses: case examples with audience
participation!

**MC: Screening for chromosomal
abnormalities in daily practice: what every
clinician needs to know**

07:30 Screening for chromosomal abnormalities in
daily practice: what every clinician needs to know

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08:15 - 09:35	OC: Thoracic and palate abnormalities advances in imaging and outcomes	
08:15	Overview of facial and thoracic abnormalities: cases	
08:39	Fetal MRI-based diaphragmatic segmentation for personalized therapy planning in fetuses with congenital diaphragmatic hernia	OC23.01
08:44	Discussion	
08:47	In-utero treatment of prenatal thoracic abnormalities by pleuro-amniotic shunts (PAS): short- and long-term outcome	OC23.02
08:52	Discussion	
08:55	Congenital lung malformations: physical growth, lung function and exercise tolerance at 8 years of age	OC23.03
09:00	Discussion	
09:03	The “superimposed line sign”: a novel marker in early diagnosis of secondary cleft palate	OC23.04
09:08	Discussion	
09:11	Relationship between Doppler parameters and postnatal outcomes in fetuses with congenital diaphragmatic hernia	OC23.05
09:16	Discussion	
09:19	Prediction of neonatal outcome in isolated congenital diaphragmatic hernia in a single center with recurrent prenatal evaluations	OC23.06
09:24	Discussion	

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09:27 Predictive factors of postnatal outcomes in the fetuses with congenital cystic adenomatoid malformation OC23.07

09:32 Discussion

OC: Fetal growth: moving paradigm from size to function

08:15 Why fetal size near term is a poor marker of adverse outcome

08:35 Is it time to change surveillance method of late growth restriction from umbilical artery Doppler to brain sparing? OC24.01

08:40 Discussion

08:43 Maternal uterine and fetal umbilical artery Doppler impedance is associated with maternal haemodynamic function OC24.02

08:48 Discussion

08:51 International charts of umbilical artery Doppler indices based on serial measurements from the INTERGROWTH-21st project OC24.03

08:56 Discussion

08:59 The association between the cerebral-placental-uterine ratio and fetal growth restriction: a prospective cohort study OC24.04

09:04 Discussion

09:07 The interaction between the maternal systemic and uteroplacental circulations in pregnancies resulting in small for gestational age newborns OC24.05

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- 09:12 Discussion
- 09:15 The IUGR newborn: transition from fetus to newborn

OC: Urogynecology

- 08:15 How ultrasound guides my surgery in urogynecology
- 08:35 Evaluation the difference of elastic modulus between contracting and resting state of levator ani muscle measured by real-time shear wave elastography OC25.01
- 08:40 Discussion
- 08:43 Fetal head engagement is associated with larger pelvic hiatal dimensions in nulliparous women at term OC25.02
- 08:48 Discussion
- 08:51 Flatus incontinence and anal sphincter trauma OC25.03
- 08:56 Discussion
- 08:59 A study on the practicality of the semi-automatic measurement for the urogenital hiatus OC25.04
- 09:04 Discussion
- 09:07 Subjective and objective success after uphold mesh OC25.05
- 09:12 Discussion
- 09:15 How to diagnose 'vaginal laxity' on translabial ultrasound OC25.06

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09:20

Discussion

HUB23: HUB: Journal?

**HUB24: HUB: Future plans and lessons learnt
from multicentre studies**

09:40 - 10:20

OP: Thoracic and abdominal abnormalities

**OP: Fetal growth and Doppler throughout the
trimesters**

OP: Urogynecology

OP: Placental disorders

P16: P: Safety and education

**P17: P: Screening for pregnancy complications
II**

**HUB25: HUB: How to evaluate a patient who
presents with pelvic pain**

HUB26: HUB: Special interest group MRI

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HUB27: HUB: Outreach

10:45 - 12:05	OC: Impacts of fetal heart disease	
10:45	Fetal haemodynamics	
11:05	Longitudinal brain and body growth in fetuses with and without transposition of the great arteries	OC26.01
11:10	Discussion	
11:13	Psychological stress and maternal cortisol when carrying a fetus with congenital heart disease	OC26.02
11:18	Discussion	
11:21	Comparison of the prevalence of pathogenic copy number variation in tetralogy of fallot and associated congenital heart defect diagnosed between fetuses and children	OC26.03
11:26	Discussion	
11:29	The study on the value of high definition live flow imaging mode of spatio-temporal image correlation technology in the diagnosis of fetal complete vascular ring	OC26.04
11:34	Discussion	
11:37	The predominance of the fetal right heart chambers in the second and third trimester	OC26.05
11:42	Discussion	
11:45	Anomalies of the aortic arch: a 10 year experience at NUH	OC26.06

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11:50	Discussion	
11:53	Cardiac ventricular apex ratio (CVAR) at 11-13 weeks: a first-trimester marker for congenital heart defects (CHD) and chromosomal defects	OC26.07
11:58	Discussion	
	OC: Fetal structural anomalies and postnatal outcome	
10:45	Neonatal follow-up of fetal malformations	
11:05	Neonatal outcome and long-term sequelae in CMV infected neonates according to the timing of primary maternal infection	OC27.01
11:10	<i>Discussion</i>	
11:13	Prenatally diagnosed echogenic kidneys: postnatal outcome	OC27.02
11:18	Discussion	
11:21	Outcome of abdominal cysts detected at 11-14 weeks of gestation: a two centers' experience	OC27.03
11:26	Discussion	
11:29	Utility of infectious and cystic fibrosis workup in prenatal diagnosis of echogenic intra-abdominal structures	OC27.04
11:34	Discussion	
11:37	Long term follow up on fetuses with isolated sonographic finding of short long bones	OC27.05
11:42	Discussion	

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11:45 Non-visualisation of the fetal gallbladder (NVFGB) at prenatal ultrasound: cohort study and systematic review of the literature on postnatal outcome OC27.06

11:50 Discussion

11:53 Evaluation of an objective antenatal measurement of fetal bowel echogenicity OC27.07

11:58 Discussion

WS: Fertility preservation in gynecology: how ultrasound can help

10:45 The role of ultrasound in fertility preservation surgery

11:05 How to use ultrasound to identify and manage recurrent borderline ovarian tumors: follow up scans or repeat surgery?

11:20 The ultrasound guided surgical management of recurrent borderline ovarian tumors

11:35 How ultrasound helps me carry out office and day surgical procedures

11:50 Investigating paediatric pelvic pain including torsion

11:45 - 12:45 **Exhibitors' Closing Meeting**

12:10 - 12:50 **OP: Fetal heart: better screening and outcomes**

OP: Fetal structural anomalies

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CS: Discussion of clinical cases: watch the experts struggle

P18: P: Diagnosis of fetal heart abnormalities and functional assessment

P19: P: Multiple pregnancies

HUB28: HUB: Controversies in reproductive medicine

P20: P: First trimester ultrasound in the era of cfDNA

14:15 - 15:45 WS: Abnormally invasive placenta

14:15 Detecting it with ultrasound

14:35 The role of MRI

14:55 Management strategies

15:15 Real life cases

15:35 Discussion

WS: Fetal anatomical assessment using MRI

14:15 I don't need MRI

14:35 The power of MRI

14:55 Brain development: how does MRI help us

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- 15:15 ISUOG guidelines through cases
- 15:35 Discussion
- WS: How do we manage pathology found on ultrasound in asymptomatic women**
- 14:15 Is a thick endometrium in postmenopausal women abnormal: should you take a biopsy?
- 14:30 Should we be looking at pelvic veins? How does pelvic pathology impact on venous flow and pelvic vein thrombosis
- 14:45 Fibroids, polyps and congenital abnormalities found on a baseline fertility scan: what should you advise your patients about treatment
- 15:00 Enhanced myometrial vascularity after pregnancy: leave it, treat it or embolise it
- 15:15 What should we do with benign looking ovarian cysts found by chance on a scan?
- 15:30 If you see endometriosis should you leave it?
The natural history of endometriosis in pregnant and non-pregnant women
- 15:50 - 16:50 Plenary 4: Closing plenary: Show us the power of ultrasound**
- 15:50 Awards presentation: Top abstract, young investigator
- 16:05 Awards presentation: Top abstract, young investigator

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- 16:05 The power of ultrasound: challenge the 2017
champion - top images from top experts
- 16:10 The power of ultrasound: challenge the 2017
champion - top images from top experts
- 16:15 The power of ultrasound: challenge the 2017
champion - top images from top experts
- 16:20 The power of ultrasound: challenge the 2017
champion - top images from top experts
- 16:25 The power of ultrasound: challenge the 2017
champion - top images from top experts
- 16:30 The power of ultrasound: challenge the 2017
champion - top images from top experts
- 16:35 Discussion and voting

This is the preliminary program and is subject to change