



28th World Congress on Ultrasound in Obstetrics and Gynecology

20 – 24 October 2018, Singapore

Incorporating ASUM 2018

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

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 OC13.01
evaluation of ventricle systolic function of fetuses
with Ebstein anomaly

08:40 Discussion

08:43 The relationship between indices of circulatory OC13.02
resistance and head circumference in the fetus
with congenital heart disease

08:48 Discussion

08:51 Maternal hyperoxygenation during fetal doppler OC13.03
echocardiography provides physiological insight
in congenital heart disease

08:56 Discussion

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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
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

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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	
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

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08:48	Discussion	
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 (PGE ₂) insert for preliminary evaluation of labor induction	OC16.01
08:40	Discussion	
08:43	Intrapartum fetal cerebroplacental Doppler ratio in first and second stage of labor in uterine rest and contractions in low-risk	OC16.02

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pregnancie

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	

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

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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 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

OC17.02

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fetal weight for screening at 26-40 weeks in
France: results of nationwide survey

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	
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

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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
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	OC19.02

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associated with a final diagnosis of ectopic pregnancy in women with a pregnancy of unknown location?

11:13	Discussion	
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**
- 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 Canon]
- 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

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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
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	OC21.02

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ventriculomegaly

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
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	

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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. Mavrellos</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	
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 <i>Chairs: F. Da Silva Costa (Australia); A. Khalil</i>	
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	

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- 17:00 Panel discussion
- 17:10 LIVE SCAN: 4D fetal echo [Supported by Samsung]
- WS: Fetal infections: updates on TORCH, Zika and anything new**
- 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

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guided treatment by the application of a human
fibrin sealant

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