

Fetal Growth 2018

Milan, Italy

1 - 3 October 2018

FINAL PROGRAMME



Fetal Growth

Milan 2018

Welcome

Faculty

Scientific Programme

Abstracts

Social Programme

Venue and Hotel

Registration

Contact

Previous Meetings ...

Monday 1 October

Workshops

Tuesday 2 October

Conference Day 1

Wednesday 3 October

Conference Day 2

E Poster-Oral

Presentations

Electronic

Posters

Pre-conference parallel workshops

Note: Each workshop will include a concurrent 'cross-over' session summarising key elements of the parallel workshop.

1. Growth Assessment Protocol (GAP)

Workshop for obstetricians and midwives on award winning prevention programme

Sue Turner, Mandy Williams, Jason Gardosi - Perinatal Institute, UK

a.m. Evidence based algorithms for risk assessment;
standardised fundal height measurement; generation of customised charts;
plotting and referral pathways; ultrasound scan protocols

p.m. Referral and detection: tools for reporting and benchmarking
missed case audit; protocols;
addressing local challenges

2. Ultrasound and Doppler

Workshop for specialists by world renown experts; includes hands-on demonstrations

Ahmet Baschat, USA, Francesc Figueras, Spain, Torvid Kiserud, Norway.

a.m. Ultrasound biometry, structural normality,
 quality assurance;
 liquor, biophysical profile

p.m. Doppler parameters- uterine, umbilical, venous,
 middle cerebral artery; cerebro-placental ratio
 clinical integration and management

18:00: Welcome reception

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08:30 Welcome

08:40 Session 1

Fetal growth and neonatal outcome

K	Irene Cetin	IT	Maternal & environmental factors
K	Karel Marsal	SE	Neurodevelopmental outcome after early onset FGR
O	Anouk Pels	NL	Neurodevelopmental outcomes at five years after early-onset FGR, analyses in a Dutch subgroup participating in a European management trial
O	Maria F Paz y Mino	ES	Severe fetal-growth restriction and normal doppler: neurodevelopmental evaluation at 54 months of age
K	Enrico Bertino	IT	Standards for neonatal size and catch up growth
O	Daniela Di Martino	IT	Prenatal assessment of IUGR versus postnatal diagnosis of SGA based on newborns weight charts: a multicentre study
	Discussion		

10:20 Refreshment Break

10:40 Session 2

Standards for fetal growth

K	Tullia Todros	IT	INTERGROWTH 21st
K	Torvid Kiserud	NO	The WHO fetal growth standard
K	Katherine Grantz	US	The NICHD program on fetal growth
K	Jason Gardosi	UK	Customised GROW charts
O	Tina Lavin	AU	Concordance between Intergrowth-21st and South African fetal growth standards for identification of SGA in stillbirths
O	Oliver Hugh	UK	The effect of mixed parentage on ethnic variation in birthweight
	Discussion		

12:30 Lunch

13:15 Session 3

Poster-Oral 1 [List](#)

14:00 Session 4

Risk factors, Screening and Prevention

K	Patrizia Vergani	IT	Stillbirth and fetal growth
O	Paola D'Aloja	IT	Perinatal mortality surveillance: a pilot project in three Italian regions
O	Sara Ornaghi	IT	Use of customized curves for estimation of fetal weight and identification of late onset FGR at risk of adverse outcomes
K	Lesley McCowan	NZ	Risk assessment and prevention
O	Joyce Cowan	NZ	The Growth Assessment Protocol (GAP): New Zealand experience
O	Lynn Sadler	NZ	A reduction in perinatal mortality in New Zealand from 2008 to 2016 among small for gestational babies by customised birthweight centile
O	Mandy Williams	UK	Reduction in SGA stillbirths in England
15:30	Discussion		

15:50 Refreshment Break

16:10 Session 5

Surveillance strategies for detection of growth restriction and macrosomia

O	Isabelle Monier	FR	Comparison of the Hadlock and Intergrowth 21st formulas for calculating estimated fetal weight among preterm infants: a population cohort study in France
O	Raigam Jafet Martinez-Portilla	ES	Performance of third trimester ultrasound for the prediction of smallness-for-gestational age: a diagnostic test accuracy meta-analysis
O	Diletta Fumagalli	IT	Perinatal outcome of term fetuses born <10th centile: are small for gestational age and growth restricted fetuses different?
O	Jens Henrichs, Viki Verfaillie	NL	Effectiveness and cost-effectiveness of routine third trimester ultrasound screening: the IUGR risk selection study (IRIS)
PO	Francesco D'Ambrosi	IT	Combined sequential ultrasound screening at 29 – 32 weeks and 35 – 37 weeks in detection of SGA fetuses
PO	Francesco D'Ambrosi	IT	Screening for small for gestational age fetuses with universal ultrasonography between 35 – 37 weeks in singleton low risk pregnancies: a prospective cohort study
PO	Andrew Sharp	UK	The current management of the small for gestational age fetus in the UK: A survey of practice
O	Gráinne Milne	IE	GAP: How is it working for us?
O	Susan Turner	UK	GAP audit: national antenatal detection rates of SGA babies and analysis of missed cases
O	Andrea Dall'Asta	IT	Identification of large-for-gestational age fetuses using antenatal customized fetal growth charts: can we improve the prediction of abnormal labor course?
O	Lauren Jade Ewington	UK	Accuracy of antenatal ultrasound in predicting large-for-gestational age fetuses
O	Tracy Tomlinson	US	Validation of a prediction model for fetal overgrowth in pregnancies complicated by diabetes
17:50	Discussion		

18:00 Close

20:00 Gala Dinner and Dance

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K	Ahmet Baschat	US	Diagnosis and management of placenta based FGR <32 weeks
K	Enrico Ferrazzi	IT	Haemodynamics in pregnancies with growth restricted fetuses
O	Damiano Lo Presti	IT	Role of maternal haemodynamic evaluation in the definition of fetuses with growth restriction outcome
O	Manel Mendoza	ES	Pravastatin to treat early-onset fetal growth restriction
O	Jana Brodzki	SE	Management of very early onset IUGR. Single center experience 1998-2015
O	Tamara Stampalija	IT	Uterine arteries blood flow volume in fetuses with inappropriate growth for gestational age and normal doppler velocimetry
O	Andrew Sharp	UK	A prediction model for short-term neonatal outcomes in severe early-onset IUGR

10:10 Refreshment Break**10.30 Session 7****Fetal growth restriction - late onset**

K	Francesc Figueras	ES	Investigation and management of late onset FGR
PO	M Serra	ES	Placental findings in small for gestational age and growth restricted fetuses
O	Marek Lubusky	CZ	Maternal serum levels of PIGF and sFlt-1 in predicting delivery of an SGA newborn
PO	Valentina Giardini	IT	Placental growth factor (plGF) as a marker of fetal growth restriction (FGR) caused by placental dysfunction: correlation with uterine arteries doppler and placental histology
PO	Daniela Di Martino	IT	sFlt-1/PIGF ratio and maternal hemodynamics in pregnancies complicated by placental insufficiency
PO	Daniela Di Martino	IT	sFlt-1/PIGF ratio in pregnancies complicated by placental insufficiency
PO	Serena Rigano	IT	The no man's land between late IUGR and AGA fetuses: the constitutionally small fetus.
PO	Raigam Jafet Martinez-	ES	Higher-risk of adverse perinatal outcome in adequate-for-gestational age fetuses with abnormal cerebro-placental ratio

Portilla			
PO	José Morales Rosello	ES	Comparison among cerebroplacental ratio, Intergrowth-21st standards, customized growth and local population references for the prediction of fetal compromise. Which is the best approach?
PO	José Morales Rosello	ES	Is it possible to predict late antepartum stillbirth by means of cerebroplacental ratio and maternal characteristics?
PO	Alice Zavatta	IT	Is labour induction the right choice in term IUGR fetuses?
PO	Eva Meler	ES	Perinatal outcomes when electively inducing low fetal weight

11.10 Refreshment Break

11:30 Session 8 Fetal Growth in Twins

O	Tullio Ghi	IT	The Italian multicentre study
O	Katherine Grantz	US	The NICHD fetal growth studies on dichorionic twin pairs
PO	Daniela Casati	IT	Twin-specific doppler nomograms in uncomplicated monochorionic twins
	Discussion		
PO	Carman Wing Sze Lai	HK	Perinatal outcomes among twin with severe growth discordance more than 30% in a 7-year retrospective cohort
PO	Mariano Lanna	IT	Monochorionic twin pregnancies complicated with twin-twin transfusion syndrome and selective growth restriction of donor twin
PO	Mariano Lanna	IT	Perinatal outcome in monochorionic twin pregnancies complicated with selective intrauterine growth restriction

12:15 Lunch

13:00 Session 9 Poster-Oral 2 [List](#)

14:00 Session 10 Therapies for placental insufficiency - The EVERREST Studies

O	Anna David	UK	Scientific rationale and aims of the consortium
O	Rebecca Spencer	UK	Ethical issues in a trial of maternal gene therapy
			<i>Understanding early onset FGR: The EVERREST Prospective study</i>
SO	Kasia Maksym	UK	Outcomes of early onset FGR: the fetus
SO	Francesc Figueras	ES	Early onset FGR - baseline medical and obstetric characteristics: 6 year prospective study
SO	Ingran Lingam	UK	Outcomes of early onset FGR: the neonate at 12 months
SO	Merryl Harvey	UK	Pregnant women's experiences and perceptions of study participation
O	Karel Marsal	SE	Challenges in recruitment in studies of FGR
SO	Tommi Heikura	FI	Reproductive toxicology studies: human placenta and pre-clinical rabbit
	Discussion		
			<i>Developing and Planning the EVERREST clinical trial</i>
SO	Tommi Heikura	FI	Developing the ATIMP (Advanced Therapy Investigational Medicinal Product) for EVERREST
SO	Robert Shaw	UK	Manufacturing the EVERREST IMP (Investigational Medicinal Product)
SO	Anna David	UK	FGR as an orphan disease
SO	Rebecca Spencer	UK	Inclusion and exclusion criteria and predicting outcome of early onset FGR
SO	Rebecca Spencer	UK	Developing standard maternal and fetal adverse event criteria for FGR clinical trials
SO	Jade Dyer	UK	Regulatory Process - MHRA
	Discussion; Closing Remarks		

15:50 Refreshment Break

16:10 Session 11

Debate: Are we placing too much emphasis on fetal size?

- Wessel Ganzevoort NL Yes; lets get away from dichotomisation
 - Jason Gardosi UK No; size does matter when assessing growth
- 16:30 Discussion

16:45 Session 12

Policies & Protocols: do they reflect the evidence

- K Lesley McCowan NZ Overview of international guidelines on fetal growth
 - O Patrizia Vergani IT Protocols in Lombardy and Italy
- 17:15 Plenary / Open Forum
General discussion and take home messages

17:45 Best abstracts

Awards & Presentations

18:00 Close

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Tue 13:15	Session 3	Poster-Oral 1		
PO 3.1	Fida Ali	UK	Are our SGA babies slipping through the net?	
PO 3.2	JM Arraez	ES	Screening programme for fetal growth restriction in low risk population	
PO 3.3	Sima Delavari	UK	To evaluate GROW customised charts in the classification of term birthweight infants <2.5kg and their predictive value for neonatal care unit admission	
PO 3.4	Sabrina Demirdjian	AR	Perinatal outcome and morbidity in small for gestational age newborns with and without prenatal diagnosis	
PO 3.5	Nandini Halder	UK	Retrospective analysis of small for gestational age (SGA) babies at our health board following implementation of the growth assessment protocol (GAP)	
PO 3.6	Ditte Nymark Hansen	DK	Screening for small-for-gestational-age fetuses in Denmark	
PO 3.7	Graham Tydeman	UK	The rising number of growth scans and an audit of screening for SGA in women with a low PAPP-A	
PO 3.8	Andrea Dall'Asta	IT	Accuracy of the symphysis-fundal height as a screening test for small-for-gestational age fetuses at birth within a low risk population	
PO 3.9	Andrea Dall'Asta	IT	Prediction of small for gestational age neonates and adverse outcomes in late onset fetal growth restriction: a comparison of standard and Intergrowth charts	
PO 3.10	Anna Carli	IT	Identification of fetal growth restriction in a population of stillbirths: a comparison of three different growth curves	
PO 3.11	Oliver Hugh	UK	Stillbirth risk and SGA rate in subgroups according to maternal size: comparison of GROW, WHO and IG21 fetal growth standards	
PO 3.12	Lesley McCowan	NZ	The effect of maternal going-to-sleep position on birthweight: a secondary analysis of an individual participant data meta-analysis of going-to-sleep position and the risk of late stillbirth	

**Wed
13:00**

Session 9

Poster-Oral 2

PO 9.1	Irene Beune	NL	Definitions of fetal growth restriction in existing literature over time: A systematic review
PO 9.2	Irene Beune	NL	Consensus based definitions of fetal growth restriction
PO 9.3	Sabrina Demirdjian	AR	Subtle cardiovascular changes in small for gestational age fetuses may be associated with neonatal morbidity
PO 9.4	V Priyadarshini	IN	Cardiac function and doppler indices before and after administration of steroid in fetuses with growth restriction
PO 9.5	Grazia Tiralongo	IT	A Pilot study of fetal growth, maternal hemodynamics and plasma and placental expression of epidermal growth factor
PO 9.6	Josephine Luppino	IT	Physiopathology of adrenal sparing: ultrasound and functional evaluation of foetal adrenal glands in relation to foetal growth restriction and pre-eclampsia
PO 9.7	Clara Bruin	NL	Inter- and Intra-observer variability in ductus venosus blood flow measurement
PO 9.8	Megan Sharps	UK	Elevated numbers of placental macrophages in pregnancies complicated with fetal growth restriction
PO 9.9	Tamara Stampalija	IT	Umbilical vein blood flow volume in fetuses with inappropriate growth for gestational age and normal doppler velocimetry
PO 9.10	Tamara Stampalija	IT	Uterine and umbilical vein blood flow volume in fetuses detected antenatally as inappropriate for gestational age but with normal birthweight
PO 9.11	Caterina Neri	IT	Fetal dopplers at term in pregnancies affected by gestational diabetes: role in prediction of perinatal outcomes
PO 9.12	Marta Rial-Crestelo	ES	Evaluation of the quality and reliability of middle cerebral artery (MCA) and umbilical artery (UA) doppler images in a randomized controlled trial
PO 9.13	Maddy Smies	NL	Birthweight/placenta weight ratio in clinically unexpected stillbirth
PO 9.14	Noha Al-Okda	EG	Umbilical artery intima-media thickness: A predictor of poor perinatal outcome in fetal growth restriction
PO 9.15	Noor Sissingh	NL	Free thiols in maternal serum and urine for the detection of fetal growth restriction

Seventh International Conference on

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	Author	Title
P 1	Gerard Albaigés	ES Early growth velocity and mode of conception in the prediction of small for gestational age (SGA)
P 2	Ezra Aydin	UK Anogenital distance in male and female fetuses at 26 to 30 weeks gestation
P 3	Ezra Aydin	UK The assessment of using 3D ultrasound to measure fetal intracranial volumes. A 3D ultrasound and MRI comparison.
P 4	Clara Bruin	NL A study of STV calculation algorithms – comparison of two applications for computerized CTG analysis
P 5	Ricardo Ciammella	AR Is low cerebro placental ratio (CPR), as a placental dysfunction marker, a limitant to reach the optimal weight in dichorionic pregnancies?
P 6	Magdalena Ciebiera	PL Partial molar pregnancy coexisting with a live diploid fetus, complicated by intrauterine growth restriction and eclampsia
P 7	Magdalena Ciebiera	PL The association between expression of microrna-21 and microrna-141 with the occurrence of intrauterine growth restriction
P 8	Edel Clare	UK Fundal height measurements - size does matter
P 9	Alex Collister	UK Clinical evaluation of the effectiveness of low PAPP-A in the identification of small-for-gestational-age babies: A GDH audit
P 10	Joyce Cowan	NZ Fundal height measurement accuracy pre-and post training
P 11	Aseela Dassanayake	UK Audit: Was there adequate utilisation of the customised growth chart and its principles in the detection of all growth restricted babies below the 10th centile, delivered in a small DGH
P 12	Anna Kajdy	PL Is it better to be big or small? - Adverse perinatal outcomes comparison
P 13	Ryan Lavery	UK Accuracy of antenatal ultrasound estimation of fetal weight within South-Eastern Health & Social Care Trust (SEHSCT)
P 14	Rebecca Lawes	UK Student midwives' perception of the growth assessment protocol (GAP): Preparation for clinical practice
P 15	Flurina Michelotti	UK Accuracy of fetal weight by ultrasound
P 16	Hannah Mistry	UK Identification and management of antenatal risk factors for growth restricted babies in a district general hospital

P 17	José Morales Rosello	ES	Study of mRNA profile in serum of fetuses with late onset growth restriction - preliminary results
P 18	Rachael O'Flaherty	UK	Experience of GROW programme in Causeway Hospital, Northern Ireland
P 19	C Perry	UK	Screening, detection and management of small for gestational age fetuses at the Liverpool Women's Hospital
P 20	Mini Poothavelil	UK	Circumvallate placenta and early onset intrauterine growth restriction
P 21	Fadimatu Aliya Umaru	UK	A case of Non-Hodgkin's lymphoma in pregnancy
P 22	Radhika Viswanatha	UK	Outcome of large for gestational age fetus in an unselected population in non-diabetic mothers who delivered before 40 weeks' gestation
P 23	Amira Younis	EG	Effect of diabetes mellitus in pregnancy on fetal liver length measurements
P 24	Stefano Faiola	IT	Longitudinal assessment of interventricular septum thickness in monochorionic diamniotic twins complicated by TTTS and treated with laser coagulation of placental anastomoses
P 25	Valentina Giardini	IT	A possible role of placental growth factor (PIGF) in the management of fetal growth restriction (FGR) with abnormal umbilical artery doppler velocimetry
P 26	Josephine Luppino	IT	Preterm infants outcomes: Is more important the weight or the gestational age?
P 27	Edurne Mazarico	ES	Birth weight and nutritional indices prediction using fractional limb volume and estimated fetal weight
P 28	Carlo Personeni	IT	Labour, maternal and neonatal outcomes in IUGR fetuses induced at term
P 29	Lynne Warrander	UK	Prediction of pregnancy outcome in extreme early-onset fetal growth restriction: An exploratory prognostic factor study
P 30	Heather Watson	UK	Treasure hunting: Establishing a Midwife-Led fetal growth assessment (MFGA) clinic to identify the high risk fetus in the low risk pregnancy