

# 18<sup>TH</sup> WORLD CONGRESS IN FETAL MEDICINE

Alicante, Spain, 25-29 June 2019

<b>Tuesday 25<sup>th</sup> June 2019: Joint session with Eurofoetus</b>		
<b>08:00 - 09:00</b>	<b>Registration</b>	
09:00 - 09:10	Welcome	Kypros Nicolaides (UK)
<b>09:10 – 10:00</b>	<b>Achilles tendon of fetal surgery</b>	
	Discussants: Jan Deprest (Belgium), Michael Belfort (USA)	
09:10 - 09:22	Effect of hydration status on fetal membrane frailty	Edoardo Mazza (Switzerland)
09:22 - 09:29	Chorioamniotic membrane separation after spina bifida repair	Romain Corroenne (USA)
09:29 - 09:36	A sealing system for fetoscopic defects	Elisenda Eixarch (Spain)
09:36 - 09:43	Nature and occurrence of fetal surgery complications	Adalina Sacco (UK)
09:43 - 09:50	Outcome of subsequent pregnancies after open spina bifida repair	Julie Moldenhauer (USA)
09:50 - 10:00	Panel discussion	
<b>10:00 - 10:35</b>	<b>Gastroschisis: novel indication for fetal surgery</b>	
	Discussants: Jan Deprest (Belgium), Alexandra Benachi (France)	
10:00 - 10:12	Prenatal findings and natural history	Paolo De Coppi (UK)
10:12 - 10:19	Experimental in utero closure	Luc Joyeux (Belgium)
10:19 - 10:30	Strategy for a clinical in utero surgery	Sundeeep Keswani (USA)
10:30 - 10:35	Panel discussion	
<b>10:35 - 13:00</b>	<b>Special lectures</b>	
	Discussants: Tessa Homfray (UK), Magdalena Sanz (USA)	
10:35 - 10:45	Fetal brain development in CDH – MRI study	Michael Aertsen (Belgium)
10:45 - 11:00	Agenesis of the corpus callosum	Daniela Prayer (Austria)
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
11:30 - 11:45	Exome sequencing analysis in fetal defects	Mark Kilby (UK)
11:45 - 12:00	3D atlas of human embryology	Bernadette de Bakker (Netherlands)
12:00 - 12:15	How a dead duck changed my life	Kees Moeliker (Netherlands)
12:15 - 12:30	Imaging genetics of the human face	Peter Claes (Belgium)
12:30 - 12:45	Intrauterine determinants of adult disease	Kirsten Poore (UK)
12:45 - 13:00	Fetal alcohol spectrum disorders	David Germanaud (France)
<b>13:00 - 14:30</b>	<b>Lunch break</b>	
<b>14:30 - 19:15</b>	<b>Twins: counselling of prospective parents</b>	
	Chairs: Yves Ville (France), Liesbeth Lewi (Belgium)	
14:30 - 14:37	Embryo reduction in DC twins and TC triplets	Slomo Lipitz (Israel)
14:37 - 14:44	Embryo reduction in DC twins and risk of PE	Veronica Accurti (Italy)
14:44 - 14:51	Embryo reduction in DC triplets – radiofrequency ablation	Vivian Dimitriadi (UK)
14:51 - 14:58	3rd trimester selective reduction in MC twins	Sanne Deneckere (Belgium)
14:58 - 15:10	Discordant anomalies in DC and MC twins	Liesbeth Lewi (Belgium)
15:10 - 15:20	Panel discussion	
15:20 - 15:32	Death of one fetus in DC and MC twins	Mark Kilby (UK)
15:32 - 15:42	Emotional consequences of single death in twins	Elena Carreras (Spain)
15:42 - 15:52	Panel discussion	
15:52 - 16:04	Monoamniotic twins	Tim Van Mieghem (Canada)
16:04 - 16:16	Conjoined twins	Paolo De Coppi (UK)
16:16 - 16:30	Panel discussion	
<b>16:30 - 17:10</b>	<b>Coffee break</b>	
17:10 - 17:17	Selective FGR: evolution in Doppler patterns	Luyao Li (China)
17:17 - 17:24	Selective FGR type 2: endoscopic laser	Ramen Chmait (USA)
17:24 - 17:31	TTTS +/- sFGR: short and long-term outcomes	Sophie Groene (Netherlands)
17:31 - 17:40	Panel discussion	
17:40 - 17:52	TTTS stages 3 and 4	Kurt Hecher (Germany)
17:52 - 18:04	TTTS stages 1 and 2	Yves Ville (France)
18:04 - 18:11	Patient-specific planning platform for TTTS surgery	Elisenda Eixarch (Spain)
18:11 - 18:18	Outcome of spontaneous vs ART MC twins	Alicia Martínez-Varea (Spain)
18:18 - 18:25	TTTS perioperative hemodynamics and neurodevelopment	Manon Gijtenbeek (Netherlands)
18:25 - 18:35	Panel discussion	
18:35 - 18:45	TAPS: diagnostic criteria and outcome	Enrico Lopriore (Netherlands)
18:45 - 18:52	TAPS: international registry of >300 cases	Lisanne Tollenaar (Netherlands)
18:52 - 18:58	TAPS: trial on management	Lisanne Tollenaar (Netherlands)
18:58 - 19:05	Normal fetal Doppler in MC twins vs. singletons	Daniela Casati (Italy)
19:05 - 19:15	Panel discussion	
<b>21:00 - 24:00</b>	<b>Welcome reception</b>	

<b>Wednesday 26<sup>th</sup> June 2019: Joint session with Eurofoetus</b>		
<b>09:00 - 10:20</b>	<b>Congenital diaphragmatic hernia</b>	
	Discussants: Jan Deprest (Belgium), Alexandra Benachi (France)	
09:00 - 09:07	Prediction of pulmonary hypertension	David Basurto (Mexico / Belgium)
09:07 - 09:14	Pulmonary hypertension in FETO patients	Jimmy Espinoza (USA)
09:14 - 09:21	Does the gestational age at delivery matter?	Hanane Bouchghoul (France)
09:21 - 09:28	Fetal brain development in CDH – US study	Lennart van der Veecken (Belgium)
09:28 - 09:35	Smart tracheal occlusion	David Basurto (Mexico / Belgium)
09:35 - 09:42	MRI assessment of lung volumes	Vivien Dutemeyer (Belgium)
09:42 - 09:50	Panel discussion	
09:50 - 10:20	<b>Severe CDH: debate on FETO outside the TOTAL trial</b>	Yves Ville vs. Jan Deprest
	Discussants: Kurt Hecher (Germany), Jacques Jani (Belgium)	
<b>10:20 - 16:00</b>	<b>Open spina bifida</b>	
	Discussants: Jan Deprest (Belgium), Magdalena Sanz (USA)	
10:20 - 10:35	1st trimester diagnosis of spina bifida: 10years later	Rabih Chaoui (Germany)
10:35 - 10:45	Spina bifida: ultrasound assessment	Elena Carreras (Spain)
10:45 - 10:52	Spina bifida: functional deterioration	Francesca Russo (Belgium)
10:52 - 11:00	Panel discussion	
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
11:30 - 11:37	Spina bifida: evolution in ventriculomegaly	Tim Van Mieghem (Canada)
11:37 - 11:44	Spina bifida: other brain anomalies	Lucas Trigo (Spain / Brazil)
11:44 - 11:51	Spina bifida: genetic anomalies	Selima Ben Miled (France)
11:51 - 12:00	Panel discussion	
12:00 - 12:10	Spina bifida: technique of postnatal repair	William Whitehead (USA)
12:10 - 12:20	Open repair: maternal and fetal complications	Martin Meuli (Switzerland)
12:20 - 12:35	Fetal surgery registry: hysterotomy	Julie Moldenhauer (USA)
12:35 - 12:50	Fetal surgery registry: fetoscopy	Magdalena Sanz (USA)
12:50 - 13:00	Panel discussion	
<b>13:00 - 14:30</b>	<b>Lunch break</b>	
	<b>Debate: indications, neurosurgical technique, membranes and prematurity</b>	
14:30 - 14:40	- Hysterotomy	Julie Moldenhauer (USA)
14:40 - 14:50	- Mini-hysterotomy	Fabio Peralta (Brazil)
14:50 - 15:00	- Fetoscopy via laparotomy	William Whitehead (USA)
15:00 - 15:10	- Fetoscopy percutaneous	Denise Lapa (Brazil)
15:10 - 15:25	Panel discussion	
15:25 - 15:32	Fetal surgery: effect on fetal Doppler	Rogelio Cruz Martinez (Mexico)
15:32 - 15:39	Fetal surgery: effect on motor function	Romain Corroenne (USA)
15:39 - 15:47	Fetal surgery: effect on posterior fossa and brain stem	Jan Deprest (Belgium)
15:47 - 15:55	Fetal surgery: learning curve	Luc Joyeux (Belgium)
15:55 - 16:00	Panel discussion	
<b>16:00 - 16:30</b>	<b>New approaches to fetal therapy</b>	
	Discussants: Dick Oepkes (Netherlands), Michael Belfort (USA)	
16:00 - 16:10	Neck tumors: fetal tracheoscopy and intubation	Rogelio Cruz Martinez (Mexico)
16:10 - 16:20	Rh disease: treatment with M281	Dick Oepkes (Netherlands)
16:20 - 16:30	Thulium laser in fetal medicine	Michael Belfort (USA)
<b>16:30 - 17:15</b>	<b>Coffee break</b>	
<b>17:15 - 19:30</b>	<b>Preterm birth</b>	
	Discussants: Roberto Romero (USA), Gerry Visser (Netherlands)	
17:15 - 17:30	Preterm birth: survival and long term outcome	Enrico Lopriore (Netherlands)
17:30 - 17:40	Need for steroids at 34-37 weeks	Gerry Visser (Netherlands)
17:40 - 17:50	Panel discussion	
17:50 - 18:00	Prediction of preterm birth and intraamniotic infection	Teresa Cobo (Spain)
18:00 - 18:20	Treatment of intraamniotic infection and intraamniotic inflammation	Roberto Romero (USA)
18:20 - 18:30	Panel discussion	
18:30 - 18:37	Prediction in twins: single vs serial measurements of cervical length	Cesar Meller (Argentina)
18:37 - 18:44	Cervical consistency in singletons and twins	Liona Poon (China)
18:44 - 18:51	Prediction of imminent birth: cervical sliding sign	Nicola Volpe (Italy)
18:51 - 18:58	Cervical length screening depends on population characteristics	Gerry Visser (Netherlands)
18:58 - 19:05	Preterm clinic: prediction and prevention of preterm birth	Meekai To (UK)
19:05 - 19:30	New ideas about preterm labor	Roberto Romero (USA)

<b>Thursday 27<sup>th</sup> June 2019</b>		
<b>09:00 - 09:30</b>	<b>Congenital infection</b>	
	Discussant: Yves Ville (France)	
09:00 - 09:06	HIV treated by antiretrovirals: infant cardiac remodelling	Laura García Otero (Spain)
09:06 - 09:12	CMV infection: knowledge by healthcare providers	Anna Gonce (Spain)
09:12 - 09:18	CMV infection <14 w: standardized assessment	Valentine Faure-Bardon (France)
09:18 - 09:30	CMV infection: new concepts	Yves Ville (France)
<b>09:30 - 10:20</b>	<b>Special topics</b>	
	Discussants: Jon Hyett (Australia), Yves Ville (France)	
09:30 - 09:45	Cesarean section: long term consequences for the child	Zarko Alfirevic (UK)
09:45 - 09:57	Intrauterine interventions in congenital heart disease	Wolfgang Arzt (Austria)
09:57 - 10:05	Meta-analysis on <i>in utero</i> stem cell transplantation	Rachel Sagar (UK)
10:05 - 10:20	Urogenital defects: postnatal management	Marie-Klaire Farrugia (UK)
<b>10:20 - 13:00</b>	<b>Fetal growth restriction</b>	
	Discussants: Gerry Visser (Netherlands), Francesc Figueras (Spain)	
10:20 - 10:30	Identification of different phenotypes of FGR	Fatima Crispi (Spain)
10:30 - 10:40	Competing risks model for prediction of SGA	Ioannis Papastefanou (Greece)
10:40 - 10:50	Fetal growth in IVF/ICSI pregnancies	Paolo Cavoretto (Italy)
10:50 - 11:00	Cardiac dysfunction and hypoxia in SGA fetuses	Fatima Crispi (Spain)
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
11:30 - 11:37	Adverse perinatal outcome at term: UtA-PI, CPR and growth	Gerard Albaiges (Spain)
11:37 - 11:43	Adverse perinatal outcome at term: biomarkers of impaired placentation	Hila De Castro (UK)
11:43 - 11:53	IPD Meta-analysis of CPR in prediction of adverse perinatal outcome	Ben Mol (Netherlands)
11:53 - 12:00	Cortical development in PE and FGR	Francesca Crovetto (Spain)
12:00 - 12:15	Early FGR: management	Christoph Lees (UK)
12:15 - 12:30	Late FGR: management	Francesc Figueras (Spain)
12:30 - 12:45	3 <sup>rd</sup> trimester prediction of SGA neonates	Kypros Nicolaides (UK)
12:45 - 13:00	Panel discussion	
<b>13:00 - 14:30</b>	<b>Lunch break</b>	
<b>14:30 - 19:00</b>	<b>Preeclampsia</b>	
	Discussants: Liona Poon, Stefan Verlohren, Kypros Nicolaides	
14:30 - 14:45	Are early PE and early sPTB the same disease?	Carl Weiner (USA)
14:45 - 14:57	Proteomics, metabolomics and lipidomics in early PE	Lina Youssef (Spain)
14:57 - 15:04	Relation of uterine artery and ophthalmic artery Doppler in PE	Markus Gonser (Germany)
15:04 - 15:11	Maternal congenital heart disease and PE	Raigam Martinez-Portilla (Spain)
15:11 - 15:20	Panel discussion	
15:20 - 15:32	FIGO guidelines for 1 <sup>st</sup> trimester prediction and prevention	Liona Poon (China)
15:32 - 15:44	Appropriate implementation of screening	David Wright (UK)
15:44 - 15:54	Implementation of screening in Asia	Liona Poon (China)
15:54 - 16:04	Implementation of screening in Spain	Mar Gil (Spain)
16:04 - 16:11	Implications of new definitions of PE	Naila Khan (UK)
16:11 - 16:18	Low-dose aspirin <11 w: meta-analysis	Piya Chaemsathong (China)
16:18 - 16:30	Panel discussion	
<b>16:30 - 17:15</b>	<b>Coffee break</b>	
17:15 - 17:25	2 <sup>nd</sup> and 3 <sup>rd</sup> trimester prediction and management	Stefan Verlohren (Germany)
17:25 - 17:32	Screening in the 2 <sup>nd</sup> trimester	Magdalena Litwinska (UK)
17:32 - 17:39	Screening in the 3 <sup>rd</sup> trimester	Anca Ciobanu (UK)
17:39 - 17:46	sFlt1/PLGF value >655: maternal and perinatal outcomes	Cecilia Villalain (Spain)
17:46 - 17:56	sFLT and PLGF to predict PE in women with hypertension	Nikos Kametas (UK)
17:56 - 18:06	Imminent PE: Congo red	Howard Cuckle (Israel)
18:06 - 18:15	Panel discussion	
18:15 - 18:25	RCT: Enoxaparin for prevention of PE and FGR	Elisa Llurba (Spain)
18:25 - 18:35	RCT: High dose folic acid for prevention of PE	Mark Walker (Canada)
18:35 - 18:45	RCT: Prediction and prevention in twins	Zsofia Benco (UK)
18:45 - 19:00	Panel discussion	
<b>19:00 - 19:15</b>	<b>New insights into obstetric cholestasis and GDM</b>	Catherine Williamson (UK)

<b>Friday 28<sup>th</sup> June 2019</b>		
<b>09:00 - 13:00</b>	<b>Fetal echocardiography</b>	
	Discussants: John Simpson (UK), Rabih Chaoui (Germany)	
09:00 - 09:12	Core concepts in fetal cardiac function	Fatima Crispi (Spain)
09:12 - 09:24	2D strain, twist and torsion – what is it all about?	John Simpson (UK)
09:24 - 09:36	Functional changes from prenatal to postnatal life	Olga Patey (UK)
09:36 - 09:46	2D strain in coarctation of the aorta	Trisha Vigneswaran (UK)
09:46 - 09:56	What about the third dimension?	Christian Enszenberger (Germany)
09:56 - 10:06	Fetal cardiac function in disease states	Marietta Charakida (UK)
10:06 - 10:16	1 <sup>st</sup> trimester vasculature imaging	Vita Zidere (UK)
10:16 - 10:30	Venous anomalies	Rabih Chaoui (Germany)
10:30 - 10:45	What's new in STIC imaging?	Balu Vaidyanathan (India)
10:45 - 11:00	Impact of computerisation / artificial intelligence	David Lloyd (UK)
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
11:30 - 12:10	Presentation of cases	John Simpson, Vita Zidere
12:10 - 12:17	Fetal cardiac remodeling and dysfunction in PE and FGR	Lina Youssef (Spain)
12:17 - 12:24	Sirolimus for fetal cardiac rhabdomyoma	Tim Van Mieghem (Canada)
12:24 - 12:31	Longitudinal changes in congenital atrioventricular block	Monica Cruz-Lemini (Mexico)
12:31 - 12:38	Sonopathological correlation of 1 <sup>st</sup> trimester cardiac defects	Sudarshan Suresh (India)
12:38 - 12:45	Right ventricular outflow tract anomalies in MC twins	Stefano Faiola (Italy)
12:45 - 12:52	2-year follow up of prenatally diagnosed univentricular heart	Silvia Andres (Argentina)
12:52 - 13:00	Early diagnosis of TOF and malalignment VSD	Valentina De Robertis (Italy)
<b>13:00 - 14:30</b>	<b>Lunch break</b>	
<b>14:30 - 16:30</b>	<b>Screening and diagnosis of aneuploidies</b>	
	Discussants: Francesca Grati, Thomas Musci, Kypros Nicolaides	
14:30 - 14:42	Comprehensive paradigm for prenatal diagnosis	Antoni Borrell (Spain)
14:42 - 14:49	New insights into risk of miscarriage after CVS	Francisca Molina (Spain)
14:49 - 14:56	cfDNA for T21, T18, T13: performance of screening in singletons and twins	Mar Gil (Spain)
14:56 - 15:03	cfDNA for T21 and T18: contingent screening in singletons	Shelley Dougan (Canada)
15:03 - 15:10	Evolution in prenatal detection of chromosomal aberrations	Pavel Calda (Czechia)
15:10 - 15:27	National programme for clinical implementation of screening	Ann Tabor (Denmark)
15:27 - 15:37	Effectiveness of prenatal testing for T21	Eugene Pergament (USA)
15:37 - 15:44	cfDNA test failure in autoimmune diseases	Alexandra Benachi (France)
15:44 - 15:51	cfDNA test in vanishing twin	Jaques Jani (Belgium)
15:51 - 15:58	cfDNA test to determine zygosity in twins	Peter Benn (USA)
15:58 - 16:05	cfDNA for DiGeorge: performance of screening	Oliver Kagan (Germany)
16:05 - 16:17	Universal cfDNA testing by genome wide approach	Mireille Bekker (Netherlands)
16:17 - 16:27	Arguments against genome wide cfDNA testing	Francesca Grati (Italy)
<b>16:30 - 17:15</b>	<b>Coffee break</b>	
17:15 - 17:22	cfDNA test in early pregnancy losses	Antoni Borrell (Spain)
17:22 - 17:32	Fetal cells in maternal blood	Jiri Sonek (USA)
17:32 - 17:40	Panel discussion	
<b>17:40 - 19:15</b>	<b>Fetal ultrasound meets genetics</b>	
	Presenters: Tessa Homfray (UK), Katia Billardo (Netherlands) Rabih Chaoui (Germany), Oliver Kagan (Germany), Elena Greco (UK)	

<b>Saturday 29<sup>th</sup> June 2019</b>		
<b>09:00 - 09:16</b>	<b>First trimester anomaly scan</b>	
	Discussants: Katia Billardo (Netherlands), Jon Hyett (Australia)	
09:00 - 09:06	Methodological standardization of the 11-13 week scan	Nicola Volpe (Italy)
09:06 - 09:16	Performance of routine screening	Argyro Syngelaki (UK)
<b>09:16 - 09:50</b>	<b>Special lectures</b>	
	Discussants: Katia Billardo (Netherlands), Jon Hyett (Australia)	
09:16 - 09:28	Birth asphyxia and cerebral palsy	Gerry Visser (Netherlands)
09:28 - 09:38	Maternal mortality across Europe	Anca Panaitescu (Romania)
09:38 - 09:50	Management of morbidly adherent placenta	Mohamed Momtaz (Egypt)
<b>09:50 - 10:40</b>	<b>Labor and birth</b>	
	Discussants: Gerry Visser (Netherlands), Jon Hyett (Australia)	
09:50 - 10:00	Macrosomia: adverse perinatal outcome	Ranjit Akolekar (UK)
10:00 - 10:07	Machine learning model for prediction of shoulder dystocia	Abraham Tsur (USA)
10:07 - 10:14	Levator ani co-activation in the active second stage of labor	Rasha Kamel (Egypt)
10:14 - 10:21	Cervical shear wave elastography: prediction of outcome in labor induction	Tak Yeung Leung (China)
10:21 - 10:28	Prediction of placenta previa at the 20 week scan	Charlotte Jansen (Netherlands)
10:28 - 10:40	Re-engineering the interpretation of fetal monitoring	Mark Evans (USA)
<b>10:40 - 11:00</b>	<b>Obesity and diabetes</b>	
	Discussants: Gerry Visser (Netherlands), Jon Hyett (Australia)	
10:40 - 10:47	The Impact of maternal obesity on gestation-specific risk of stillbirth	Naila Ramji (Canada)
10:47 - 10:54	Does bariatric surgery change pregnancy outcome?	Alexandra Matias (Portugal)
10:54 - 11:01	Prediction of the need for insulin treatment in gestational diabetes mellitus	Makarios Eleftheriades (Greece)
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
<b>11:30 - 13:00</b>	<b>Neurosonography</b>	
	Discussants: Magdalena Sanz (USA), Elisenda Eixarch (Spain)	
11:30 - 11:37	Isolated non-severe ventriculomegaly: neurodevelopment	Nadine Hahner (Spain)
11:37 - 11:44	Routine assessment of proximal hemisphere	Lorena Hormazabal (Chile)
11:44 - 11:56	Consequences of short corpus callosum	Eldad Katorza (Israel)
11:56 - 12:03	Corpus callosum in congenital heart defects	Miriam Pérez-Cruz (Spain)
12:03 - 12:15	Panel discussion	
12:15 - 12:35	Sonographic visualization of the optic chiasm	Guillermo Azumendi (Spain)
12:35 - 13:00	Presentation of diagnostic challenges	Ritsuko Pooh (Japan)
<b>13:00 - 14:30</b>	<b>Lunch break</b>	