

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

## Valencia, Spain, 25-29 June 2023

Sunday 25 <sup>th</sup> June 2023: Joint session with Eurofoetus		
<b>08:00 - 09:00</b>	<b>Registration</b>	
09:00 - 09:05	Welcome	Kypros Nicolaides (UK)
<b>09:05 - 10:45</b>	<b>Congenital diaphragmatic hernia</b>	
	<b>Discussants: Alexandra Benachi (France), Kypros Nicolaides (UK)</b>	
09:05 - 09:15	Fetal treatment - overview	Jan Deprest (Belgium)
09:15 - 09:22	Incidence and outcome of syndromic CDH	Carmen Mesas Burgos (Sweden)
09:22 - 09:29	Outcome in eventration	Francesca Russo (Belgium)
09:29 - 09:36	Duration of occlusion matters in left and right sided CDH	Kanokwaroon Wataninrun (Thailand)
09:36 - 09:40	Discussion	
09:40 - 10:05	Debate: FETO for non-isolated CDH	Alexandra Benachi (France) Sieglinde Muellers (Ireland)
10:05 - 10:30	Debate: Difference of FETO in USA and Europe	Anthony Johnson (USA) Jan Deprest (Belgium)
10:30 - 10:45	Fetal organoids - prediction model for pulmonary hypoplasia	Paolo De Coppi (UK)
<b>10:45 - 11:00</b>	<b>Special lecture: ChatGPT vs humans</b>	Helena Williams (UK)
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
<b>11:30 - 13:30</b>	<b>Fetal spina bifida repair</b>	
	<b>Discussants: Greg Ryan (Canada), Jan Deprest (Belgium)</b>	
11:30 - 11:45	Outcome depends on gestation and incision length at surgery	Fabio Peralta (Brazil)
11:45 - 11:52	Evolution in technique and gestational age at birth	Marta Santorum (UK)
11:52 - 11:59	Effect on membranes of percutaneous vs exposed uterus	Awais Mirza Ahmad (Pakistan)
11:59 - 12:10	Discussion	
12:10 - 12:17	Simple prenatal predictors for postnatal shunting: ultrasound	Yada Kunpalin (Canada)
12:17 - 12:24	Simple prenatal predictors for postnatal shunting: MRI	Michael Aertsen (Belgium)
12:24 - 12:30	Discussion	
12:30 - 12:37	Inclusion criteria	Nicole Ochsenbein (Switzerland)
12:37 - 12:47	Long term neurodevelopmental outcome	Magdalena Sanz-Cortes (USA)
12:47 - 12:57	Long term urological outcome	Nerea Maiz (Spain)
12:57 - 13:07	Use of biocellulose repair technique and need to untether the cord	Denise Lapa (Brazil)
13:07 - 13:17	Long term maternal outcome	Simen Vergote (Belgium)
13:17 - 13:30	Discussion	
<b>13:30 - 14:30</b>	<b>Lunch break</b>	
<b>14:30 - 18:30</b>	<b>Innovation in fetal therapy and surgery</b>	
	<b>Discussants: Jan Deprest (Belgium), Alan Flake (USA)</b>	
14:30 - 14:45	Spina bifida repair: use of robotic surgery	Tim Van Mieghem (Canada) Jan Deprest (Belgium)
14:45 - 14:55	Spina bifida repair: use of stem cell patches	Ramesh Papanna (USA)
14:55 - 15:05	Discussion	
15:05 - 15:15	Fetal lung volume in abdominal wall defects	Gilmar Osmundo Junior (Brazil)
15:15 - 15:25	Gastroschisis: postnatal outcome	Sundeep Keswami (USA)
15:25 - 15:35	Gastroschisis: prenatal assessment	Alexandra Benachi (France)
15:35 - 15:45	Gastroschisis: prenatal repair – animal studies	Luc Joyeux (USA)
15:45 - 15:55	Gastroschisis: prenatal repair – phase 1 study	Michael Belfort (USA)
15:55 - 16:05	Discussion	
16:05 - 16:15	Vein of Galen Malformation: natural history and imaging	Magdalena Sanz (USA)
16:15 - 16:30	Vein of Galen Malformation: fetal therapy	Yves Ville (France) Rogelio Cruz-Martinez (Mexico)
<b>16:30 - 17:00</b>	<b>Coffee break</b>	
17:00 - 17:10	Repeated amnioinfusions in early pregnancy renal anhydramnios	Ahmet Baschat (USA)

17:10 - 17:20	First trimester shunting for fetal megacystis	Eva Christin Weber (Germany)
17:20 - 17:30	Flexible fetal cystoscopy for lower urinary tract obstruction	Rogelio Cruz-Martinez (Mexico)
17:30 - 17:45	In utero enzyme, gene and cell therapy today	Mary Norton (USA)
17:45 - 17:55	Fetal enzyme replacement therapy for lysosomal storage disorders	Akos Herzeg (USA)
17:55 - 18:05	Discussion	
18:05 - 18:20	Artificial placenta: time line to clinical implementation	Alan Flake (USA)
18:20 - 18:30	Artificial placenta: experience from Spain	Elisenda Eixarch (Spain)
<b>18:30 - 18:45</b>	<b>Special lecture:</b> Trampling on women's rights and pregnancy care	Mark Evans (USA)
<b>18:45 - 19:00</b>	<b>Special lecture:</b> Artificial intelligence and fetal medicine	Aris Papageorghiou (UK)

<b>Monday 26<sup>th</sup> June 2023: Joint session with Eurofoetus</b>		
<b>09:00 - 12:05</b>	<b>Monochorionic twin complications: knows and don't knows</b>	
	<b>Discussants: Yves Ville (France), Liesbeth Lewi (Belgium)</b>	
09:00 - 09:12	Monochorionic placenta	Liesbeth Lewi (Belgium)
09:12 - 09:24	Twin-to-twin transfusion syndrome	Kurt Hecher (Germany)
09:24 - 09:31	TTTS >26w: fetoscopic laser surgery vs. elective delivery	Rogelio Cruz-Martinez (Mexico)
09:31 - 09:38	Solomon Laser - pros and cons	Ahmet Baschat (USA)
09:38 - 09:45	TTTS: RCT - prevention of preterm birth by the Arabin pessary	Carlota Rodo (Spain)
09:45 - 09:52	TTTS: fetoscopic laser surgery in triplet pregnancies	Elina Vlachodimitropoulou (Canada)
09:52 - 10:05	Discussion	
10:05 - 10:20	Selective fetal growth restriction	Tim Van Mieghem (Canada)
10:20 - 10:27	Severe sFGR: multicenter cohort study (the ALIGN-study)	Anne Noll (Netherlands)
10:27 - 10:42	Other monochorionic twin problems	Yves Ville (France)
10:42 - 10:49	Selective fetal reduction by fetoscopy-guided bipolar cord coagulation	Mingming Zheng (China)
10:49 - 11:00	Discussion	
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
11:30 - 11:42	Neonatal and infant outcomes	Enrico Lopriore (Netherlands)
11:42 - 11:49	TTTS +/- sFGR: postnatal follow up	Francisca Molina (Spain)
11:49 - 11:56	TTTS +/- sFGR: prediction of perinatal and neurological outcome	Fabio Peralta (Brazil)
11:56 - 12:05	Discussion	
<b>12:05 - 16:00</b>	<b>Alloimmune diseases in pregnancy</b>	
	<b>Discussants: Enrico Lopriore (Netherlands), Roland Devlieger (Belgium), Kypros Nicolaides (UK)</b>	
	<b>Fetal and neonatal alloimmune thrombocytopenia</b>	
12:05 - 12:20	Introduction	Joanne Verweij (Netherlands)
12:20 - 12:35	Antenatal management	Greg Ryan (Canada)
12:35 - 12:50	Neonatal management and long-term outcome	Thijs de Vos (Netherlands)
12:50 - 13:00	Discussion	
<b>13:00 - 14:30</b>	<b>Lunch break</b>	
	<b>Rhesus disease – Hemolytic disease of the fetus and newborn</b>	
14:30 - 14:45	The ongoing burden of Rh disease: a global perspective	Gerry Visser (Netherlands)
14:45 - 15:00	Antenatal management	Dick Oepkes (Netherlands)
15:00 - 15:15	Neonatal management and long-term outcome	Enrico Lopriore (Netherlands)
15:15 - 15:30	Dionysus study: results from international registry in 2300 cases	Derek de Winter (Netherlands)
15:30 - 15:45	Treatment with anti-neonatal Fc receptor monoclonal antibody	Ken Moise (USA)
15:45 - 16:00	Discussion	
<b>16:00 - 16:10</b>	<b>Special lecture: Rising cesarean section rates</b>	Gerry Visser (Netherlands)
<b>16:10 - 16:20</b>	<b>Special lecture: Placenta accreta spectrum</b>	Alfred Abuhamad (USA)
16:20 - 16:30	Discussion	
<b>16:30 - 17:00</b>	<b>Coffee break</b>	
<b>17:00 - 19:00</b>	<b>Fetal echocardiography</b>	
	<b>Discussants: Rabih Chaoui (Germany), Alfred Abuhamad (USA)</b>	
17:00 - 17:15	Approach to diagnosis: the four chamber view	Rabih Chaoui (Germany)
17:15 - 17:30	Approach to diagnosis: the outflow tracts	Alfred Abuhamad (USA)
17:30 - 17:45	Approach to diagnosis: the aortic arch	Alberto Galindo (Spain)
17:45 - 18:00	Fetal cardiac imaging in the first trimester	Alfred Abuhamad (USA)
18:00 - 18:10	Artificial intelligence assists fetal cardiac screening examination	Edwin Quarello (France)
18:10 - 18:20	HLHS: prenatal prediction of postnatal outcome	Roland Axt-Fliedner (Germany)
18:20 - 18:27	ARSA: association with chromosomal aberrations	Valentina De Robertis (Italy)
18:27 - 18:34	Fetal CHD: association with adverse pregnancy outcome	Gitte Hedermann (Denmark)
18:34 - 18:41	New insights into prenatal pulmonary stenosis	Laura Nogue (Spain)
18:41 - 18:48	Dextro-transposition of the great arteries with restrictive foramen ovale	Ingo Gottschalk (Germany)
18:48 - 18:55	Pulmonary arterial hypertension and pregnancy	Constantin von Kaisenberg (Germany)
18:55 - 19:02	Maternal cardiovascular disease and pregnancy	Margherita Scarrone (Italy)

<b>Tuesday 27<sup>th</sup> June 2023</b>		
<b>09:00 - 12:30</b>	<b>Fetal growth restriction</b>	
	<b>Discussants: Francesc Figueras (Spain), Gerry Visser (Netherlands), Basky Thilaganathan (UK)</b>	
09:00 - 09:12	Genetic issues	Antoni Borrell (Spain)
09:12 - 09:24	Early prediction and prevention of SGA	Ioannis Papastefanou (Greece)
09:24 - 09:36	Early FGR: management	Christoph Lees (UK)
09:36 - 09:48	Late FGR: management	Francesc Figueras (Spain)
09:48 - 09:58	Late FGR: conservative management	Raffaele Napolitano (UK)
09:58 - 10:08	Early FGR: use of angiogenic markers for management	Alberto Galindo (Spain)
10:08 - 10:18	Term FGR: angiogenic factors versus Doppler (GRAFD trial)	Manel Mendoza (Spain)
10:18 - 10:25	Discussion	
10:25 - 10:32	Preterm SGA: combined screening by the FMF model in Australia	Fabricio Costa (Australia)
10:32 - 10:39	Term SGA: validation of the FMF model	Themistoklis Dagklis (Greece)
10:39 - 10:51	Prevention of SGA by Mediterranean diet or stress reduction	Francesca Crovetto (Spain)
10:51 - 11:00	Discussion	
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
11:30 - 11:37	The role of PLGF in the management of SGA fetuses	Athena Souka (Greece)
11:37 - 11:44	Umbilical vein flow and fetal growth	Ruben Ramirez Zegarra (Italy)
11:44 - 11:51	Fetal growth impairment in spontaneous preterm birth	Claudia Rueda Ricarte (Spain)
11:51 - 12:00	Abnormal fetal growth and neurodevelopmental disorders	Mads Langager Larsen (Denmark)
12:00 - 12:10	Volumetric fetal brain MRI and neurodevelopmental outcome	Eldad Katorza (Israel)
12:10 - 12:20	Growth trajectories in twins	Steffen Kristensen (Denmark)
12:20 - 12:30	Discussion	
<b>12:30 - 16:00</b>	<b>Preterm birth</b>	
	<b>Discussants: Vincenzo Berghella (USA), Kypros Nicolaides (UK)</b>	
12:30 - 12:50	Prediction and prevention of PTB	Vincenzo Berghella (USA)
12:50 - 13:00	Maternal cell free RNA in prediction of PTB	Carl Weiner (USA)
<b>13:00 - 14:30</b>	<b>Lunch break</b>	
14:30 - 14:37	3D volume ultrasound of uterine scar in prediction of PTB	Maria Ivan (UK)
14:37 - 14:44	Stemness biomarkers in pregnant women with a short cervix	George Daskalakis (Greece)
14:44 - 14:51	Effect of intra-amniotic infection on the fetal corpus callosum and cortex	Clara Murillo Bravo (Spain)
14:51 - 14:58	Nanopore sequencing in diagnosis of intra-amniotic infection	Piya Chaemsathong (Thailand)
14:58 - 15:10	Discussion	
15:10 - 15:20	RCT: vaginal chlorhexidine before 16 weeks to prevent PTB	José Morales-Roselló (Spain)
15:20 - 15:30	RCT: cervical cerclage vs cervical pessary in cervical insufficiency	Elena Carreras (Spain)
15:30 - 15:40	RCT: cervical pessary versus vaginal progesterone in short cervix	Charlotte van Dijk (Netherlands)
15:40 - 16:00	Discussion	
<b>16:00 - 16:30</b>	<b>Coffee break</b>	
<b>16:30 - 19:00</b>	<b>Fetal ultrasound meets genetics</b>	
	<b>Discussants: Rabih Chaoui (Germany), Tessa Homfray (UK), Jon Hyett (Australia)</b>	
16:30 - 16:45	Use of exome sequencing for routine prenatal diagnosis	Mary Norton (USA)
16:45 - 17:00	Diagnostic yield and clinical utility of genomic sequencing in fetal defects	Mark Kilby (UK)
17:00 - 17:15	Carrier screening in pregnancy - overview	Peter Benn (USA)
17:15 - 17:25	Carrier screening in Australia	Jon Hyett (Australia)
17:25 - 17:35	Discussion	
17:35 - 17:45	The value of the 11-13 weeks scan in the era of cfDNA testing	Katia Bilardo (Netherlands)
17:45 - 17:55	Cost effectiveness of 1st trimester anomaly scan	Jehan Karim (UK)
17:55 - 18:02	Increased nuchal translucency before 11 weeks of gestation	Bo Bet (Netherlands)
18:02 - 18:09	Trisomies in relation to nuchal translucency at 10-11 weeks	Ghalia Ashoor (UK)
18:09 - 18:20	Impact of cfDNA testing on amniocentesis and CVS rates	Howard Cuckle (Israel)
18:20 - 18:27	Invasive testing vs cfDNA testing in the 1 <sup>st</sup> trimester high risk group	Kasper Gadsbøll (Denmark)
18:27 - 18:34	Prenatal screening after preimplantation genetic testing-aneuploidy	Gerard Albaiges (Spain)
18:34 - 18:41	cfDNA testing for trisomy 21 based on digital droplet PCR	Pavel Calda (Czechia)
18:41 - 18:48	Isolation and testing of fetal cells from the mother	Francesca Romana Grati (Italy)
18:48 - 19:00	Discussion	

**Wednesday 28<sup>th</sup> June 2023**

<b>09:00 - 10:00</b>	<b>Fetal ultrasound meets genetics</b>	
	<b>Discussants: Rabih Chaoui (Germany), Tessa Homfray (UK)</b>	
09:00 - 09:40	Presentation and discussion of diagnosis and management of fetal abnormalities	Rabih Chaoui (Germany) Oliver Kagan (Germany)
09:40 - 10:00	Fetal sex abnormalities	Marisa Borenstein (Spain)
<b>10:00 - 10:15</b>	<b>Special lecture:</b> Contribution of genetics to cerebral palsy	Mark Evans (USA)
<b>10:15 - 10:30</b>	<b>Special lecture:</b> Complication rate after termination for fetal defects	Oliver Kagan (Germany)
<b>10:30 - 10:45</b>	<b>Special lecture:</b> Balloon catheters vs prostaglandins for labour induction	Ben Mol (Australia)
<b>10:45 - 11:00</b>	<b>Special lecture:</b> Genomics and pregnancy complications	Antonio de Marvao (UK)
<b>11:00 - 11:30</b>	<b>Coffee break</b>	
<b>11:30 - 13:00</b>	<b>Topics in maternal – fetal medicine</b>	
	<b>Discussants: Catherine Williamson (UK), Roland Devlieger (Belgium)</b>	
11:30 - 11:42	Fetal growth after maternal bariatric surgery	Roland Devlieger (Belgium)
11:42 - 11:54	Cancer in pregnancy	Frédéric Amant (Netherlands)
11:54 - 12:06	Diabetes risk stratification	Caroline Ovadia (UK)
12:06 - 12:18	The GUARDS trial	Katy de Paco (Spain)
12:18 - 12:30	Pre-pregnancy counselling	Cathy Nelson-Piercy (UK)
12:30 - 12:42	Hyperemesis gravidarum	Catherine Williamson (UK)
12:42 - 13:00	Discussion	
<b>13:00 - 14:30</b>	<b>Lunch break</b>	
<b>14:30 - 19:30</b>	<b>Preeclampsia</b>	
	<b>Discussants: Liona Poon (Hong Kong), Laura Magee (UK), Peter von Dadelszen (UK), Stefan Verlohren (Germany), Kypros Nicolaides (UK)</b>	
<b>14:30 - 15:45</b>	<b>Topics of discussion:</b>	
	Angiogenic markers in prediction of preeclampsia	Liona Poon (Hong Kong)
	Angiogenic markers in diagnosis and management of preeclampsia	Stefan Verlohren (Germany)
	Is there more to learn from BP than whether it is $\geq 140/90$ mmHg?	Laura Magee (UK)
	Prediction of adverse outcomes in preeclampsia	Peter von Dadelszen (UK)
	Management of blood pressure in the 4th trimester	Basky Thilaganathan (UK)
15:45 - 15:52	1st trimester prediction of future chronic hypertension	Marietta Charakida (UK)
15:52 - 16:04	First trimester blood pressure control	Ahmet Baschat (USA)
16:04 - 16:16	Preeclampsia and the kidney – a vicious cycle	Kate Bramham (UK)
16:16 - 16:28	Discrete event simulation modeling	David Wright (UK)
<b>16:30 - 17:00</b>	<b>Coffee break</b>	
17:00 - 17:12	Endothelial dysfunction in preeclampsia	Fatima Crispi (Spain)
17:12 - 17:22	Arterial health and preeclampsia	Ana Werlang (Canada)
17:22 - 17:32	Ophthalmic artery Doppler and arterial stiffness for prediction of term PE	Tanvi Mansukhani (UK)
17:32 - 17:40	Discussion	
17:40 - 17:50	Maternal nutrition and preeclampsia	Anastasija Arechvo (UK)
17:50 - 17:57	Serum glycosylated fibronectin in 1st trimester prediction of preterm preeclampsia	Daljit Sahota (Hong Kong)
17:57 - 18:04	Serum glycosylated fibronectin in suspected preeclampsia	Nikolas Sokratous (UK)
18:04 - 18:11	1st trimester prediction of preterm preeclampsia using artificial intelligence	Maria del Mar Gil (Spain)
18:11 - 18:18	1st trimester prediction of preterm preeclampsia and prevention by aspirin	Manel Mendoza (Spain)
18:18 - 18:25	Contribution of impaired placentation to preterm birth	Argyro Syngelaki (UK)
18:25 - 18:32	UtA-PI in GDM pregnancies with and without preeclampsia	Makarios Eleftheriadis (Greece)
18:32 - 18:39	Prediction and prevention of preeclampsia: Brazilian guidelines 2023	Fabricio Costa (Brazil)
18:39 - 18:49	ASPREE trial: effects of aspirin on PAPP-A, PIGF, MAP and UtA-PI trajectories	Daniel Rolnik (Australia)
18:49 - 18:59	RCT: discontinuation of aspirin if 2nd trimester biomarkers becomes normal	Manel Mendoza (Spain)
18:59 - 19:06	RCT (HoTel): Home telemonitoring vs. hospital care in complicated pregnancies	Mireille Bekker (Netherlands)
19:06 - 19:13	Hypertensive crisis in pregnancy: prediction of labetalol non-response	Mauro Parra-Cordero (Chile)
19:13 - 19:30	Discussion	

<b>Thursday 29<sup>th</sup> June 2023</b>		
<b>09:00 - 10:45</b>	<b>Maternal - fetal infection</b>	
	<b>Discussant: Yves Ville (France)</b>	
09:00 - 09:10	Covid 19 infection - overview	Yves Ville (France)
09:10 - 09:25	CMV infection - overview	Yves Ville (France)
09:25 - 09:35	Prevention of vertical transmission of CMV	Christos Chatzakis (Greece)
09:35 - 09:45	Fetal MRI findings in CMV	Michael Aertsen (Belgium)
09:45 - 10:00	Ultrasound findings in CMV	Gustavo Malinger (Israel)
10:00 - 10:15	Non-invasive diagnosis of fetal infection	Nicolas Bourgon (France)
10:15 - 10:30	Discussion	
<b>10:30 - 10:45</b>	<b>Special lecture: Fetal diffusion tensor imaging</b>	Romain Corroenne (France)
<b>10:45 - 13:30</b>	<b>Fetal neurosonography</b>	
	<b>Discussants: Dario Paladini (Italy), Gustavo Malinger (Israel)</b>	
10:45 - 11:00	Overview of neurosonography	Elisenda Eixarch (Spain)
<b>11:00 - 11:45</b>	<b>Coffee break</b>	
11:45 - 12:00	False negatives and false positives in neurosonography	Dario Paladini (Italy)
12:00 - 12:15	Understanding neuronal migration and neurosonographic findings	Ritsuko Pooh (Japan)
12:15 - 12:30	Fetal hydrocephaly: causes and differential diagnosis	Karina Haratz (Israel)
12:30 - 12:45	Corpus callosum anomalies: need for standardization	Laurent Salomon (France)
12:45 - 12:55	Cortical bite sign in agenesis of the corpus callosum	Ruben Ramirez Zegarra (Italy)
12:55 - 13:05	Cystic posterior fossa anomalies	De Robertis / Olivieri (Italy)
13:05 - 13:15	The 12 week interhemispheric cyst-like midline structure	Erica Smith (USA)
13:15 - 13:30	Discussion	
<b>13:30 - 15:00</b>	<b>Lunch break</b>	