Sunday 25th June 2017: Joint session with Eurofoetus

08:00 - 09:00 Registration

09:00 - 09:10 Welcome

09:10 - 11:00 Lung abnormalities

Discussants: Jan Deprest (Belgium), Greg Ryan (Canada)

- 09:10 - 09:25 CDH: natural history
  Greg Ryan (Canada)
- 09:25 - 09:32 CDH: stomach in contact with the bladder
  Cesar Meller (Argentina)
- 09:32 - 09:39 CDH: prenatal prediction of outcome by LHR in the USA
  Anthony Johnson (USA)
- 09:39 - 09:46 CDH: prenatal prediction of pulmonary hypertension
  Francesca Russo (Belgium)
- 09:46 - 09:53 CDH: prenatal prediction of morbidity in first 8 years of life
  Patrice Eastwood (Belgium)
- 09:53 - 10:03 CDH: TOTAL trial
  Jan Deprest (Belgium)
- 10:03 - 10:10 CDH: prenatal removal of the balloon after FETO
  Jan Deprest (Belgium)
- 10:10 - 10:17 CDH: trans-placental sildenafil as an adjunct to FETO
  Francesca Russo (Belgium)
- 10:17 - 10:24 CDH: Extracellular vesicles in the tracheal fluid after FETO
  Nicola Persico (Italy)
- 10:24 - 10:34 CDH: Extracellular vesicles in the tracheal fluid after FETO
  Cesar Meller (Argentina)
- 10:34 - 10:41 CDH: prenatal prediction of pulmonary hypertension
  Brigitte Strizek (Germany)
- 10:41 - 10:48 CDH: prenatal prediction of morbidity in first 8 years of life
  Patrice Eastwood (Belgium)
- 10:48 - 11:00 Discussion

11:00 - 11:30 Coffee break

11:30 - 12:20 Brain abnormalities

Discussant: Yves Ville (France), Elisenda Eixarch (Spain)

- 11:30 - 11:45 Venticulomegaly: natural history
  Dominic Thompson (UK)
- 11:45 - 12:00 Venticulomegaly: prenatal diagnosis and management
  Elisenda Eixarch (Spain)
- 12:00 - 12:10 Venticulomegaly: prenatal assessment and outcome
  Eldad Katorza (Israel)
- 12:10 - 12:17 Venticulomegaly: in utero venticulostomy
  Yves Ville (France)
- 12:17 - 12:34 Mnemonic aid in assessment of anterior complex
  Angela Ranzini (USA)
- 12:34 - 12:40 Venticulomegaly: in utero venticulostomy
  Ritsuko Pooh (Japan)
- 12:40 - 13:00 The artificial placenta
  Alan Flake (USA)

13:00 - 14:30 Lunch break

14:30 - 16:15 Open spina bifida

Discussants: Jan Deprest (Belgium), Dominic Thompson (UK)

- 14:30 - 14:45 OSB: neurosurgical goals of spina bifida repair
  Dominic Thompson (UK)
- 14:45 - 14:53 OSB: need for leak-proof repair
  Luc Joyceux (Belgium)
- 14:53 - 15:00 OSB: Swiss experience with open fetal surgery
  Martin Meuli (Switzerland)
- 15:00 - 15:07 OSB: prenatal prediction of postnatal shunting after fetal surgery
  Ladina Vonzun (Switzerland)
- 15:07 - 15:17 OSB: long term outcome after open fetal surgery
  Alan Flake (USA)
  Denise Pedreira (Brazil)
- 15:24 - 15:37 OSB: outcome after fetoscopic surgery
  Michael Belfort (USA)
- 15:37 - 15:43 OSB: cerebellar Doppler velocimetry in fetal rats
  Enrique Gil Guevara (USA)
- 15:43 - 16:00 OSB: distinction from limited dorsal myeloschisis
  Jean-Marie Jouannic (France)
- 16:00 - 16:07 OSB: Ultrasound based 3D model printing for training purposes
  Ahmet Baschat (USA)
- 16:07 - 16:15 Discussion

16:15 - 17:00 Fetal anemia

Discussant: Kypros Nicolaides (UK)

- 16:15 - 16:19 Background to treatment
  Kypros Nicolaides (UK)
- 16:19 - 16:29 Postponing early fetal transfusion with IVIG
  Carolien Zwiers (Netherlands)
- 16:29 - 16:36 MRI of umbilical vein in prediction of fetal anemia
  Ditte Jørgensen (Denmark)
- 16:36 - 16:43 Timing for sequential intrauterine transfusion
  Jesus Rodriguez Calvo (Spain)
- 16:43 - 17:00 Discussion

17:00 - 18:00 Coffee break
### 18:00 - 20:00  
**Fetal growth restriction**

Discussants: Gerry Visser (Netherlands), Zarko Alfirevic (UK)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:00 - 18:10</td>
<td>Fetal growth charts: WHO</td>
</tr>
<tr>
<td>18:10 - 18:20</td>
<td>Fetal growth charts: which ones to use</td>
</tr>
<tr>
<td>18:20 - 18:35</td>
<td>Assessment of fetal growth by MRI</td>
</tr>
<tr>
<td>18:35 - 18:45</td>
<td>FGR: cause of disease in adulthood</td>
</tr>
<tr>
<td>18:45 - 18:52</td>
<td>FGR: relation to renal dysfunction in adulthood</td>
</tr>
<tr>
<td>18:52 - 19:00</td>
<td>FGR: volumetric MRI of fetal brain</td>
</tr>
<tr>
<td>19:00 - 19:07</td>
<td>FGR: screening by 1st trimester growth</td>
</tr>
<tr>
<td>19:07 - 19:14</td>
<td>Early FGR: effect of pravastatin on fetal and uterine Doppler</td>
</tr>
<tr>
<td>19:14 - 19:30</td>
<td>Early FGR: RCT on sildenafil therapy</td>
</tr>
<tr>
<td>19:30 - 19:45</td>
<td>Early FGR: management</td>
</tr>
<tr>
<td>19:40 - 20:00</td>
<td>Discussion</td>
</tr>
</tbody>
</table>

### 21:00 - 01:00  
**Welcome party**

---

### Monday 26th June 2017: Joint session with Eurofoetus

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 - 09:40</td>
<td>Placental abnormalities</td>
</tr>
<tr>
<td>09:00 - 09:10</td>
<td>Placenta accreta: screening by ultrasound at 11-13 weeks</td>
</tr>
<tr>
<td>09:10 - 09:25</td>
<td>Placenta accreta: medical and surgical treatment</td>
</tr>
<tr>
<td>09:25 - 09:40</td>
<td>Vasa previa</td>
</tr>
<tr>
<td>09:40 - 12:45</td>
<td>Complications in twins</td>
</tr>
<tr>
<td>09:40 - 09:55</td>
<td>Video demonstration: training for fetoscopic laser surgery</td>
</tr>
<tr>
<td>09:55 - 10:10</td>
<td>Video demonstration: placental perfusion studies</td>
</tr>
<tr>
<td>10:10 - 10:17</td>
<td>TTTS: prediction from site of placental cord insertion</td>
</tr>
<tr>
<td>10:17 - 10:24</td>
<td>MC twins: significance of placental cord insertion</td>
</tr>
<tr>
<td>10:24 - 10:31</td>
<td>TAPS: quantification of discordant placental echogenicity</td>
</tr>
<tr>
<td>10:31 - 10:41</td>
<td>TAPS: management</td>
</tr>
<tr>
<td>10:41 - 10:48</td>
<td>sFGR: definition and outcome</td>
</tr>
<tr>
<td>10:48 - 10:55</td>
<td>sFGR: placental microRNA 199a</td>
</tr>
<tr>
<td>10:55 - 11:00</td>
<td>Discussion</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>Coffee break</td>
</tr>
<tr>
<td>11:30 - 11:37</td>
<td>ROM after fetoscopy: predictors</td>
</tr>
<tr>
<td>11:37 - 11:44</td>
<td>ROM after fetoscopy at &lt;26 w: predictors of outcome</td>
</tr>
<tr>
<td>11:44 - 11:51</td>
<td>DC twins: outcome after PROM in one sac at &lt;20 w</td>
</tr>
<tr>
<td>11:51 - 11:58</td>
<td>Short cervix at laser therapy: cerclage</td>
</tr>
<tr>
<td>11:58 - 12:05</td>
<td>Short cervix at laser therapy: pessary</td>
</tr>
<tr>
<td>12:05 - 12:12</td>
<td>Selective fetocide in MC twins: radiofrequency</td>
</tr>
<tr>
<td>12:12 - 12:19</td>
<td>Selective fetocide in MC twins: bipolar coagulation</td>
</tr>
<tr>
<td>12:19 - 12:26</td>
<td>Dichorionic triplets: management options</td>
</tr>
<tr>
<td>12:26 - 12:33</td>
<td>MC twins: MCA PSV in survivor after selective cord occlusion</td>
</tr>
<tr>
<td>12:33 - 12:45</td>
<td>Discussion</td>
</tr>
<tr>
<td>12:45 - 13:00</td>
<td>Long term outcome in complicated MC twins</td>
</tr>
<tr>
<td>13:00 - 14:30</td>
<td>Lunch break</td>
</tr>
<tr>
<td>14:30 - 15:00</td>
<td>Lower urinary tract obstruction</td>
</tr>
<tr>
<td>14:30 - 14:45</td>
<td>Fetal surgery</td>
</tr>
<tr>
<td>14:45 - 14:52</td>
<td>Fetal cystoscopy</td>
</tr>
<tr>
<td>14:52 - 14:59</td>
<td>Urethroplasty with a coronary angioplasty balloon catheter</td>
</tr>
</tbody>
</table>
15:00 - 17:00 Screening and diagnosis of chromosomal abnormalities
Discussants: Kypros Nicolaides (UK), Mark Evans (USA)

15:00 - 15:10 Introduction
Kypros Nicolaides (UK)

15:10 - 15:20 Invasive testing for all pregnancies
Mark Evans (USA)

15:20 - 15:27 cfDNA: meta-analysis on performance of screening
Mar Gil (Spain)

15:27 - 15:34 cfDNA: test failure
importance of measuring fetal fraction
Maximilian Schmid (Austria)

15:34 - 15:41 implication of failed result due to low fetal fraction
Peter Benn (USA)

15:41 - 15:51 accounting for and reducing test failures
Howard Cuckle (Israel)

15:51 - 16:00 Discussion

16:00 - 16:07 RCT: 1st trimester combined test vs. ultrasound and cfDNA
Oliver Kagan (Germany)

16:07 - 16:14 cfDNA: screening strategies
Francesca Grati (Italy)

16:14 - 16:21 cfDNA: effect on detected major chromosomal aberrations
Pavel Calda (Czechia)

16:21 - 16:28 cfDNA: screening beyond trisomies 21, 18, 13
sex chromosome aneuploidies
Francesca Grati (Italy)

16:28 - 16:35 rare autosomal trisomies
Peter Benn (USA)

16:35 - 16:42 diagnosis of spinal muscular atrophy
Min Chen (China)

16:42 – 17:00 Discussion

17:00 - 18:00 Coffee break

18:00 - 18:10 Fetal cells in maternal blood
Mark Evans (USA)

18:10 - 20:00 Clinical genetics and fetal medicine
Discussants: Tessa Homfray (UK), Rabih Chaoui (Germany)

18:10 - 18:20 Introduction
Tessa Homfray (UK)

18:20 - 18:27 Whole genome sequencing; detection of pathogenic CNVs
Richard Choy (Hong Kong)

18:27 - 18:34 Whole exome sequencing: fetal brain defects
Liran Hiersch (Israel)

18:34 - 18:41 Whole exome sequencing: fetal akinesia syndrome
Theresa Reischer (Austria)

18:41 - 19:10 Presentation of cases
Tessa Homfray (UK)

18:10 - 19:20 Guidance from an anomaly to a syndrome by GPS
Julien Stirnemann (France)

19:20 - 20:00 Ultrasound diagnosis of genetic syndromes
Rabih Chaoui (Germany)

Tuesday 27th June 2017

09:00 - 11:00 Prediction and prevention of preterm birth
Discussants: Robert Romero (USA), Zarko Alfirevic (UK)

09:00 - 09:06 Spontaneous preterm birth in IVF pregnancies: meta-analysis
Paolo Cavoretto (Italy)

09:06 - 09:12 Relation between vaginal microbiome and amniotic fluid ‘sludge’
Alan Hatanaka (Brazil)

09:12 - 09:18 Need for amniocentesis prior to cerclage
Jiri Vojtech (Czechia)

09:18 - 09:24 Usefulness of antenatal corticosteroids
Gerry Visser (Netherlands)

09:24 - 09:30 Preterm labor arrest: meta-analysis on maintenance tocolysis
Alexandros Sotiriadis (Greece)

09:30 - 09:40 Discussion

09:40 - 09:46 PPROM at <24w: expectant management
Oliver Kagan (Germany)

09:46 - 09:52 PPROM at 16-24w; PPROMEXIL-III trial on amnioinfusion
Annemijn de Ruigh (Netherlands)

09:52 - 09:58 PPROM at 34-36w: IPD meta-analysis on early delivery
Annemijn de Ruigh (Netherlands)

09:58 - 10:08 PPROM: discussion

10:08 - 10:15 Cervix ≤15 mm: cerclage vs. vaginal progesterone
Athena Souka (Greece)

10:15 - 10:25 Cervix ≤25 mm: PESAPRO trial of cervical pessary vs. vaginal progesterone
Sara Cruz-Melguizo (Spain)

10:25 - 10:45 Cervix ≤25 mm: IPD meta-analysis of vaginal progesterone in singletons & twins
Roberto Romero (USA)

10:45 - 11:00 Discussion

11:00 - 11:30 Coffee break

11:30 - 16:20 Congenital heart defects
Discussants: Vita Zidere (UK), Marietta Charakida (UK)

11:30 - 11:50 Tetralogy of Fallot
Vita Zidere (UK)

11:50 - 12:10 Coarctation of the aorta
Marietta Charakida (UK)

12:10 - 12:40 CHD: discussion of cases
Zidere, Charakida, Chaoui

12:40 - 12:50 Fetal venous system
Simcha Yagel (Israel)

12:50 - 13:00 Anomalies of aortic arch - fetal US and postnatal MRI/CT
Reuven Achiron (Israel)

13:00 - 14:30 Lunch break
### June 28th, 2017

#### 10:00 - 16:30  Prediction and prevention of preeclampsia

**Discussants:**
- John Hyett (Australia)
- Ahmet Baschat (USA)
- Gerry Visser (Netherlands)
- Kypros Nicolaides (UK)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Discussants</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00-10:07</td>
<td>1st trimester: prediction of PE by the combined test</td>
<td>Neil O’Gorman (France)</td>
</tr>
<tr>
<td>10:07-10:14</td>
<td>1st trimester: prediction of PE by the combined test</td>
<td>Jiri Sonek (USA)</td>
</tr>
<tr>
<td>10:14-10:21</td>
<td>1st trimester: prediction of PE by serum serum GDF15 and HtrA3</td>
<td>Fabrizio Costa (Australia)</td>
</tr>
<tr>
<td>10:21-10:28</td>
<td>2nd trimester: stratification of care based on prediction of PE</td>
<td>Magdalena Litwinska (UK)</td>
</tr>
<tr>
<td>10:28-10:35</td>
<td>3rd trimester: prediction and diagnosis of PE by sFLT-1 to PLGF ratio</td>
<td>Stefan Verloren (Germany)</td>
</tr>
<tr>
<td>10:35-10:42</td>
<td>4th trimester: new technique for uterine artery Doppler</td>
<td>Olivier Drouin (Canada) / Liona Poon (HK)</td>
</tr>
<tr>
<td>10:42-10:52</td>
<td>1st trimester: prediction of PE in twins</td>
<td>Zsofia Benko (UK)</td>
</tr>
<tr>
<td>10:52-11:00</td>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>

#### 11:00 - 13:00  Lunch break

#### 11:00 - 13:40  Diagnosis of PE: effect of race on urine PCR

**Discussants:**
- Nikos Kametas (UK)
- Eran Ashwal (Israel)
- Ray Bahado-Singh (USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Discussants</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30-11:40</td>
<td>1st and 3rd trimester: prediction of PE by proteomics and metabolomics</td>
<td>Ray Bahado-Singh (USA)</td>
</tr>
<tr>
<td>11:40-11:47</td>
<td>1st and 3rd trimester: prediction of PE by serum serum GDF15 and HtrA3</td>
<td>Fabrizio Costa (Australia)</td>
</tr>
<tr>
<td>11:47-11:54</td>
<td>2nd trimester: prediction of PE by NICOG, ACOG, FMF</td>
<td>Fabrizio Costa (Australia)</td>
</tr>
<tr>
<td>11:54-12:01</td>
<td>2nd trimester: stratification of care based on prediction of PE</td>
<td>Magdalena Litwinska (UK)</td>
</tr>
<tr>
<td>12:01-12:11</td>
<td>3rd trimester: prediction and diagnosis of PE by sFLT-1 to PLGF ratio</td>
<td>Stefan Verloren (Germany)</td>
</tr>
<tr>
<td>12:11-12:18</td>
<td>4th trimester: prediction of PE by serum MR-proANP</td>
<td>Cahit Birdir (Germany)</td>
</tr>
<tr>
<td>12:18-12:30</td>
<td>Pregnancy hypertension: maternal cardiac function</td>
<td>Basky Thilaganathan (UK)</td>
</tr>
<tr>
<td>12:30-12:38</td>
<td>Pregnancy hypertension: angiogenic and cardiovascular markers</td>
<td>Stefan Verloren (Germany)</td>
</tr>
<tr>
<td>12:38-12:45</td>
<td>Diagnosis of PE: value of urine PCR</td>
<td>Eran Ashwal (Israel)</td>
</tr>
<tr>
<td>12:45-12:52</td>
<td>Diagnosis of PE: effect of race on urine PCR</td>
<td>Nikos Kametas (UK)</td>
</tr>
<tr>
<td>12:52-13:00</td>
<td>Diagnosis of PE: need for validated blood pressure monitor</td>
<td>Diane Nzelu (UK)</td>
</tr>
</tbody>
</table>

#### 14:30 - 16:30  Fetal bowel dilation

**Discussants:**
- Reuven Achiron (Israel)

### Coffee Break

#### 16:30 - 17:30

**Coffee Break**

#### 17:30 - 19:00  First trimester scan

**Discussants:**
- Katja Bilardo (Netherlands)
- Rabih Chaoui (Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Discussants</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30-17:47</td>
<td>11-13 w scan: hypoplasia / aplasia of the vermis</td>
<td>Reinhard Altmann (Austria)</td>
</tr>
<tr>
<td>17:37-17:44</td>
<td>11-13 w scan: maxillary gap and facial cleft</td>
<td>Robert Lachmann (Germany)</td>
</tr>
<tr>
<td>17:44-18:05</td>
<td>11-13 w scan: discussion of cases</td>
<td>Oliver Kagan (Germany)</td>
</tr>
<tr>
<td>18:05-18:20</td>
<td>Role of ultrasound in the era of cfDNA testing</td>
<td>Katja Bilardo (Netherlands)</td>
</tr>
<tr>
<td>18:20-19:00</td>
<td>1st trimester ultrasound diagnosis of fetal defects</td>
<td>Rabih Chaoui (Germany)</td>
</tr>
</tbody>
</table>

#### 21:00 - 02:00  Dinner party
14:30 - 14:37 Implications of previous gestational hypertension
Dan Biris (UK)

14:37 - 14:44 Implications of maternal obesity
Argyro Syngelaki (UK)

14:44 - 14:51 Implications of chronic hypertension
Anca Panaitescu (UK)

14:51 - 15:00 Discussion

15:00 - 15:15 ASPRE trial: prevention of preterm PE
Liona Poon (UK)

15:15 - 15:25 ASPRE trial: effect on term PE
David Wright (UK)

15:25 - 15:40 ASPRE trial: implications
Kypros Nicolaides (UK)

15:40 - 15:50 Prevention of PE: going beyond aspirin
Ahmet Baschat (USA)

15:50 - 16:00 Prevention of PE: omeprazole
John Hyett (Australia)

16:00 - 16:10 The Hawthorne effect
Gerry Visser (Netherlands)

16:10 - 16:30 Discussion

16:30 - 16:45 Early screening tests – effect on healthcare costs
Carl Weiner (USA)

16:45 - 17:00 Intrapartum mortality and severe asphyxia
Zarko Alfirevic (UK)

Thursday 29th June 2017

09:00 - 11:00 Maternal fetal disease
Discussants: Yves Ville (France), Gerry Visser (Netherlands)

09:00 - 09:07 CMV infection: role of HIG therapy
Oliver Kagan (Germany)

09:07 - 09:14 CMV infection: role of antiretrovirals
Yves Ville (France)

09:14 - 09:21 CMV infection: role of MRI
Shlomo Lipitz (Israel)

09:21 - 09:28 Zika virus: exposure and consequences
Carlota Rodu (Spain)

09:28 - 09:35 Zika virus: ultrasound abnormalities in affected fetuses
Carol Gisela Rueda (Colombia)

09:35 - 09:42 Appendicitis: role of emergency MRI
Eldad Katorza (Israel)

09:42 - 09:49 Bariatric surgery: effect on insulin resistance
Tanya Maric (UK)

09:49 - 09:56 GDM: late preterm birth and neonatal morbidity
Katja Brice (Slovenia)

09:56 - 10:10 Updates on diabetes mellitus and pregnancy
Gerry Visser (Netherlands)

10:10 - 10:30 Maternal autoantibodies and fetal defects
Anca Panaitescu (Romania)

10:30 - 11:00 Cases of maternal-fetal medicine
Surabhi Nanda (UK)

11:00 - 11:30 Coffee break

11:30 - 13:00 Labor and delivery
Discussants: Gerry Visser (Netherlands), Yves Ville (France)

11:30 - 11:37 Prediction of adverse outcome at 20 weeks
George Papaioannou (Greece)

11:37 - 11:47 Prediction of SGA with adverse outcome
Asma Khalil (UK)

11:47 - 12:00 Cerebro-placental ratio: prediction of fetal distress in labor
Ranjit Akolekar (UK)

12:00 - 12:15 Fetal head size and labor outcome
Simcha Yagel (Israel)

12:15 - 12:30 Re-engineering the interpretation of fetal monitoring
Mark Evans (USA)

12:30 - 12:37 Sonographic assessment of progression angle
Francesco Conversano (Italy)

12:37 - 12:44 Sonographic prediction of successful induction of labor
Magdalena Fiolna (UK)

12:44 - 12:51 Intrapartum sonographic monitoring of progress of labor
Alex Frick (UK)

12:51 - 13:00 Discussion

13:00 - 14:30 Lunch break

15:00 - 19:00 Trip to Bled