In today's daily work we are facing more fetuses with cardiac anomalies. With this two (2) day course endorsed by ISUOG organization, you will receive informations about various cardiac pathologies like: Abnormal four chamber view, cardiac Doppler importance, Conotruncal anomalies, Pulmonary atresia or left side lesions etc...

Course Description
Course on fetal echocardiography focusing on the use of ultrasound imaging in order to detect abnormalities. During this course the faculties will give lecture to be able to understand, recognize and know how to treat the most common cardiac pathologies.

Venue
Intercontinental Hotel – Sala Fortuna
4 Nicolae Balcescu Blvd.
010051 Bucharest, Romania

Preregistration require
Limited amount of seats: 50

Registration deadline
10th of November 2014

Registration policy
First come, first served

Registration fee
300 lei VAT included

Payment details:
Paloma Tours SRL
60 Vasile Lucaciu Street
District 3, Bucharest
VAT number: RO 3801712
Bank Account: RO25INGB 0001 0081 9877 8910
ING Bank

ISUOG will also offer membership reduction cost to participants of this workshop. Membership cost will be 10€ instead of 50 €

Course Director
Prof. Joanna Dangel, MD, PhD
Pediatrician, cardiologist, consultant in perinatal cardiology Medical University of Warsaw. For many years a councilor and a treasurer for the Fetal Cardiology Working Group of AEPC. Director of the fetal cardiac intervention program in Poland.
**FETAL ECHOCARDIOGRAPHY**

**Philips Ultrasound Fetal Echocardiography course**

28-29 November, 2014

To register please contact:

Veronica Alecsa  
+ 40 21 317 21 02  
veronica.alecsa@gadagroup.ro

Gadagroup RomaniaSRL  
241A Barbu Vacarescu Street  
020285 Bucharest, Romania  
www.gadagroup.ro

**Faculties**

**Joanna Kuran, MD**
Obstetrician in training, IInd Department of Obstetrics and Gynecology of Medical University of Warsaw. FMF certificates of 1st trimester scanning (NT, DV, TV, nasal bone, Doppler) and 2nd trimester scanning. Polish basic certificate for fetal cardiac scanning. Member of ISUOG

**Rodica Toganel MD,PhD,FESC**
University of Medicine and Pharmacy of Targu Mures, Institute of Cardiovascular Diseases and Transplantation of Targu Mures, Romania.

**Ralu Vladareanu MD, PhD**
Obstetrician and Gynecologist, Director of Obstetrics and Gynecology Department, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania. President of Romanian Society for Ultrasonography in Obstetrics and Gynecology. National Coordinator for Ultrasound in OG and for Maternal Fetal Medicine certificates in Romania. Vice-President of Fetus as Patient International Society..

**Claudiu Marginean MD, PhD**
University of Medicine and Pharmacy of Targu Mures, Institute of Cardiovascular Diseases and Transplantation of Targu Mures, Romania.

**Adam Koleśnik, MD**
Paediatric cardiologist in training, Memorial Hospital Child’s Health Centre. Anatomist in Department of Descriptive and Clinical Anatomy. Secretary of cardiovascular morphology working group of AEPC. Polish basic certificate for fetal cardiac scanning. Active member of the fetal interventional program in Poland.
## FETAL ECHOCARDIOGRAPHY  Two (2) day program

### Day 1  November 28th 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:30</td>
<td>Fetal echocardiography – from screening to advanced consultation – what is the difference?</td>
<td>Joanna Dangel</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>Fetal echocardiography in Romania – how to built the effective program?</td>
<td>Rodica Toganel</td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>How to evaluate fetal cardiovascular system to minimize mistakes: echo – morphological correlation.</td>
<td>Adam Koleśnik</td>
</tr>
<tr>
<td>11:00-11:15</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>11:15-12:00</td>
<td>Why fetal Doppler is important – feto-placental flow pattern from the first to the third trimester, how to look for abnormal and borderline results.</td>
<td>Joanna Kuran-Ohde</td>
</tr>
<tr>
<td></td>
<td>- IUGR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Fetal anemia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Cardiac defects</td>
<td></td>
</tr>
<tr>
<td>12:00-12:45</td>
<td>Fetal cardiac Doppler and fetal heart failure – common language between obstetrician and cardiologist.</td>
<td>Joanna Dangel</td>
</tr>
<tr>
<td>12:45-13:30</td>
<td>Abnormal four chamber view - what to think about, echo-morphology correlation:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- abnormal angle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- right side larger than left side</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- cardiomegaly</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adam Koleśnik, Joanna Dangel</td>
<td></td>
</tr>
<tr>
<td>13:30-14:30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>14:30-15:30</td>
<td>Septal lesions: VSD, AVSD echocardiography and morphology.</td>
<td>Adam Koleśnik, Joanna Dangel</td>
</tr>
<tr>
<td>15:30-16:15</td>
<td>Aortic arch abnormalities: CoA, IAA, vascular rings.</td>
<td>Joanna Kuran-Ohde, Adam Koleśnik</td>
</tr>
<tr>
<td>16:15-16:45</td>
<td>Ventricular disproportion in the third trimester of pregnancy and the suspicion of fetal aortic coarctation.</td>
<td>Claudiu Marginean</td>
</tr>
<tr>
<td>16:45-17:00</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>17:00-18:00</td>
<td>Conotruncal anomalies – case studies: echo-morphology correlations.</td>
<td>Adam Koleśnik, Joanna Dangel</td>
</tr>
<tr>
<td>18:00-18:30</td>
<td>Physical activity during pregnancy – advice from the physiotherapeutist.</td>
<td>Katarzyna Kozera</td>
</tr>
<tr>
<td>18:30- 19:30</td>
<td>Case studies and on-line scanning.</td>
<td></td>
</tr>
</tbody>
</table>
# Fetal Echocardiography

## Two (2) Day Program

### Day 2  
**November 29th 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 9.00-10.00 | Left side lesions: aortic stenosis and HLHS - prenatal evolution - echocardiography and morphology. Role of fetal interventions.  
*Joanna Dangel* |
| 10.00-11.00 | Pulmonary atresia&intact VS, critical pulmonary stenosis - echocardiography and morphology. Role of fetal interventions.  
*Adam Koleśnik* |
| 11.00-11.15 | Coffee break |
| 11.15-11.45 | The associated cardiac malformations of chromosomal abnormalities.  
*Radu Vladareanu* |
| 11.45-12.30 | Cardiovascular system in twin pregnancy.  
*Joanna Kuran* |
| 12.30-13.30 | Fetal cardiac arrhythmias – diagnosis and therapy.  
*Joanna Dangel* |
| 13.30-14.00 | Fetal cardiac arrhythmias – Romanian experience.  
*(cardiologist from Rodica Toganel team)* |
| 14.00-15.00 | Lunch |
| 15.00-16.00 | Hetrotaxy syndromes – the real diagnostic challenge in prenatal cardiology.  
*Adam Kolesnik, Joanna Dangel* |
| 16.00-17.00 | Abnormalities of great veins: ISVC to coronary sinus; venous duct absent, TAPVD.  
*Adam Kolesnik, Joanna Kuran - Ohde* |
| 17.00-17.15 | Coffee break |
| 17.15-18.00 | Fetal cardiac emergency – implication for the perinatal care. Counselling – the most important part of prenatal cardiology.  
*Joanna Dangel* |
| 18.00-19.00 | Case studies and on-line scanning |

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