Final Program

Up to 29 CME credits
Welcome to our society

What words come to mind when you think of ISUOG?
Results from ISUOG’s 2014 membership survey... visit the ISUOG Lounge to have your say!

With more than 8500 members from across 126 countries, ISUOG is the leading international society in its niche field. Our mission is to improve healthcare for women across the world through the provision and broadest dissemination of the highest quality education and research information around ultrasound in obstetrics and gynecology.

All fully paid Congress delegates are now ISUOG members for 2015 and can enjoy their membership benefits immediately. Turn to pages 9 - 12 for ISUOG’s membership guide where you can read more about our new projects and opportunities, get involved in exciting activities taking place here in Barcelona and find out more about your membership benefits.

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Welcome message

On behalf of the ISUOG and Congress organising committees, we are extremely proud to welcome you to Barcelona for the 24th World Congress on Ultrasound in Obstetrics and Gynecology.

The Congress is the leading international event in ultrasound in obstetrics and gynecology attracting the most innovative research in the field. This year we received the largest number of abstract submissions in the history of the event, with close to 1200 abstracts incorporated into the final program. Through careful curation of that research and the addition of expert faculty, our Scientific Committee is confident it has constructed a state-of-the-art program for your enjoyment.

The overall program will offer something for everybody with didactic lectures and interactive practically-focused workshops as well as scientific presentations, providing ample opportunity to learn from our international faculty and connect with world renowned specialists. This year we are also pleased to be supporting the development of up-and-coming physicians through ISUOG’s basic training course and our annual Young Investigator award and welcome you to explore our new Masterclasses and sign up for lunch-time Meet the Professor sessions.

We encourage you to take part in our social program and to enjoy the city of Barcelona while you are here. Barcelona is famous for representing a unique combination of the traditional and the contemporary. History, culture, art, architecture, gastronomy and design are integrated in an engaged whole and we hope will permeate all aspects of your time with us.

Thank you to all our invited faculty, delegates and industry partners for your ongoing support of ISUOG. We hope you thoroughly enjoy the Congress.

Welcome to Barcelona!

Eduard Gratacós
Congress Chair

Juan Luis Alcázar
Congress Co-Chair

Bienvenido Puerto
Congress Co-Chair

Critical dates and times

Registration opening hours
Saturday 13 September 07:00 - 17:30
Sunday 14 September 07:00 - 18:30
Monday 15 September 07:00 - 18:30
Tuesday 16 September 07:00 - 18:00
Wednesday 17 September 07:00 - 18:00

The registration area is located in the Congress Foyer, on the ground floor of the CCIB on Saturday and Sunday. From Monday to Wednesday, registration will be in the P1 foyer.

Exhibition opening hours
Sunday 14 September 12:50 - 19:45
Monday 15 September 10:00 - 17:00
Tuesday 16 September 10:00 - 17:00
Wednesday 17 September 10:00 - 16:00

The exhibition is located in the Banquet hall, on the second floor of the CCIB.

Speaker preparation room opening hours
Saturday 13 September 07:30 - 17:30
Sunday 14 September 08:00 - 18:00
Monday 15 September 07:00 - 18:00
Tuesday 16 September 07:00 - 18:00
Wednesday 17 September 07:00 - 17:00

The speaker preparation room is located in Room 134 on the first floor of the CCIB. Speakers MUST check in their presentation at the speakers’ preparation room at least four hours prior to the commencement of the session in which they are due to present and preferably the day before their presentation. Please note that laptop plug in facility is by special arrangement only and not available in all sessions. Please refer to pages 22 -23 for details.

ISUOG Annual General Meeting (AGM)
All fully paid delegates are ISUOG members for 2015 and are invited to attend the AGM for an introductory update on all ISUOG activities.
Sunday 14 September 2014
12:10, Auditorium, CCIB

Critical dates and times

Scientific program hours
Please refer to the program for the exact location and timings of each session. Sessions will take place during the following times:

Pre-Congress courses only
Saturday 13 September 08:30 - 17:10

ISUOG basic training course only
Sunday 14 September 08:00 - 16:15

Main Congress
Sunday 14 September 09:00 - 17:40
(followed by an exclusive performance by renowned Catalan choir, Cor Vivaldi and welcome reception, 17:40 to 19:45)
Monday 15 September 07:30 - 18:05
Tuesday 16 September 07:30 - 18:05
Wednesday 17 September 07:30 - 17:10
(followed by leaving drinks and welcome to Montreuil 2015, 17:10-18:00)

Short oral presentations will be presented in chaired discussion sessions:
Monday, Tuesday & Wednesday
09:40 - 10:20
12:10 - 12:50
Monday & Tuesday only
15:40 - 16:20

All short oral presentations and electronic poster slides will be available for viewing at any time in the ISUOG Lounge (in the exhibition hall) on our On Demand viewing terminals or via the interactive digital signage in the foyer.

Chairpersons briefing
Sunday 14 September 10:20, VIP room

More information for Chairpersons on page 23.
Social program

### Opening ceremony & welcome reception

**Sunday 14 September, CCIB**

All registered delegates, accompanying persons and exhibitors are invited to attend our opening ceremony followed by welcome drinks and tapas in the exhibition hall, on the second floor of the CCIB.

*Please note you will not be allowed entry without your Congress badge or ticket.*

- 17:40 Welcome from the Congress Chairs
  - Auditorium, CCIB
- 17:50 Exclusive performance by renowned Catalan choir, Cor Vivaldi
  - Auditorium, CCIB
- 18:15 Welcome reception
  - Exhibition hall, CCIB
- 20:00 Close

### ISUOG Visitor’s Guide to Barcelona

Be sure to make the most of the ISUOG Visitor’s Guide to Barcelona, prepared by our Local Organising Committee which can be found online at [isuog.org/worldcongress](http://isuog.org/worldcongress). A limited number of printed copies are available at registration.

The guide will give you a local view on where to go and what to see in your spare time, including our Local Organising Committee’s favourite restaurants, cafés and bars.

### Accompanying person’s program

**Cost:** €150 per person

Available at the registration desk, the accompanying persons’ program includes:

- Admission to the Congress opening ceremony and welcome drinks
- Admission to the Congress exhibition area and catering breaks
- Admission to the Congress leaving drinks
- Lonely Planet Barcelona pocket guide
- Barcelona city 24 hour ‘Hop-on, Hop-off’ bus tour ticket

### Closing plenary & awards ceremony

**Wednesday 17 September at 16:00**

Join us for the final plenary and Congress awards in Room 116 + 117. Our last session will include a lively debate on Caesarean scar pregnancies, followed by drinks and snacks to celebrate our 2015 destination city, Montréal!

Complimentary to all fully registered delegates and accompanying persons.

### Congress party

**Tuesday 16 September**

**Time:** 19:30 - midnight

**Venue:** El Xalet de Montjuïc Restaurant, Avinguda de Miramar 31, 08038 Barcelona

**Cost:** €100 per person (including dinner, all drinks and entertainment!)

**Dress:** Cocktail attire

The venue for the 2014 Congress party is El Xalet de Montjuïc restaurant. Located in the city’s mountain range, El Xalet offers spectacular views of Barcelona. A three-storey restaurant, our party this year will offer something for everyone: both indoor and outdoor spaces in which to chat, eat and enjoy the unsurpassed vistas, as well as a dedicated level for dancing perfect for all those who would like to let loose!

*Places are strictly limited and are sold on a first come, first served basis at the registration desk. Please note you will not be allowed entry without your party ticket which is printed with your badge, so do remember to bring it with you.*

### Congress party transport

**Return trip to the Congress party from the Forum area by coach:** €10

Purchase a place on one of ISUOG’s Congress party buses to save on your transport to and from the event. A limited number of tickets can be purchased at registration and must be handed to ISUOG staff before you board the bus on Tuesday evening.

Buses depart for the party from Avinguda Diagonal in front of the AC Marriot Hotel from 19:15-20:00. The first return trip back is planned for 22:15 and staggered returns then continue until midnight when the last buses will depart El Xalet.

If you choose not to take the bus, taxis can be booked directly with your hotel.
General information

Lost property
Please hand any lost property to the registration desk, where it will be made available for collection.

Name badges
Please wear your name badge at all times; you will need this to gain admission to all Congress areas. Please note, our staff members are instructed not to permit entry without your badge, so please be understanding if you are asked to return to the registration desk. Name badge holders have been colour coded as follows:
- Large badge holder:
  - Full delegates
  - ISUOG Board
  - Invited faculty
  - Exhibitors (access to exhibition areas only)
  - Staff (with wording STAFF on badge)
- Small badge holder:
  - Day delegate (with day printed)
  - Accompanying persons

Certificates of attendance
To receive your certificate of attendance please hand your Congress evaluation form to the staff at the registration desk before 18:00 on Wednesday 17 September. Your certificate will be sent to you after the Congress to the email address we have for you on file. If you have any questions please ask at the registration desk.

Congress contact details
- Contendam (registration & booking enquiries)
  26-28 Hammersmith Grove, London, W6 7HA, UK
  T: + 44 (0)20 8748 8668    F: + 44 (0)20 8237 4093
  E: ISUOG2014@contendam.com
- ISUOG Secretariat (all other inquiries)
  ISUOG, 122 Freston Road, London W10 6TR, UK
  T: + 44 (0)20 7471 9955    F: + 44 (0)20 7471 9959
  E: congress@isuog.org

Disclaimer
Best endeavours will be made to present the program as printed. However ISUOG and its agents reserve the right to alter or cancel without prior notice, any of the arrangements, timetables, plans or other items relating directly or indirectly to the Congress for any reason beyond its reasonable control. ISUOG and its agents are not liable for any loss or inconvenience caused as a result of such alteration.

First aid
Should you require assistance during Congress hours, please contact the registration desk.

Future meetings
Literature regarding future meetings of interest to participants is displayed in the exhibition area.

Catering
Tea, coffee, lunches and both welcome and closing buffets are included in the registration fees and will be served in the Banquet hall of the CCIB where the exhibition will be held from lunchtime on Sunday to Wednesday. The first coffee break of the Congress will take place in the Auditorium foyer.

Certificates of attendance
To receive your certificate of attendance please hand your Congress evaluation form to the staff at the registration desk before 18:00 on Wednesday 17 September. Your certificate will be sent to you after the Congress to the email address we have for you on file. If you have any questions please ask at the registration desk.

Recordings / duplications
Photography, audio taping, video recording or any other form of duplication is strictly prohibited in session halls and poster areas, except with the express consent, in advance, of ISUOG and the speakers involved. All sessions are recorded and made available to delegates and ISUOG members after the Congress, through the ISUOG On Demand web portal.

Official language
The official language of the Congress is English. Translation facilities are only available for one of the pre-Congress courses and ISUOG’s basic training course.

Parking
The Venue does not have onsite parking. The closest paid parking can be found at the Diagonal Mar Centre Comercial across the road from the CCIB, or at the nearby Placa del Fórum complex.

Smoking policy
Smoking is not permitted in the venue.

WIFI
Complimentary WIFI is available in some areas of the CCIB, identified by signage.
Visit the ISUOG Lounge
Visit the ISUOG Lounge in the exhibition hall at any time during the Congress to meet the team and explore your ISUOG member benefits!

Stand activities include:
• Meet the team: everything you need to know about your ISUOG membership
• Launch of new journal app, hosted by UOG publishers, Wiley-Blackwell
• Meet our Managing Editor who can answer your queries about publishing in UOG
• Give-aways promoting our 2015 Congress, supported by Tourisme Montréal
• E-poster and scientific program viewing on ISUOG’s On Demand viewing terminals

Access Congress lectures On Demand
On Demand gives members easy access to selected presentations from past World Congresses and the opportunity to view all of this year’s electronic posters and oral presentations as they go live on site in Barcelona. You can access On Demand online, anytime using your member login or at the ISUOG Lounge.

ISUOG is proud to present its new membership resources at the Congress...

New Journal app
The Ultrasound in Obstetrics & Gynecology app will offer full and online members enhanced access to cutting-edge research published in the journal.

76 new web lectures
ISUOG has recorded 76 new web lectures from our 2014 intensive education courses: ‘Early pregnancy and infertility’, ‘Imaging in oncology’ and ‘Fetal anomalies and CNS’. Available at isuog.org/onlinelearning

Basic training curriculum
Following the publication of ISUOG’s revised recommendations for basic training in ultrasound for obstetrics and gynecology (UOG: January 2014) ISUOG will deliver our new basic training course here in Barcelona on Sunday 14 September, which will be available on our online learning platform, in both Spanish and English.

7 new Visuog chapters
ISUOG’s visual encyclopedia is growing; visit the ISUOG Lounge to explore seven new Visuog chapters on the fetal heart.

Congress simulation centre
As part of our commitment to delivering comprehensive education and training in ultrasound for obstetrics and gynecology ISUOG is exploring the development of simulation in education with our industry partners. Visit the Congress simulation centre in the exhibition hall to tell us what you think about the simulation opportunities.

Online CME coming soon....

Attend the ISUOG AGM
All ISUOG members (including all delegates) are warmly invited to join us for an update on ISUOG activities and to vote on ISUOG business at the Annual General Meeting (AGM) in Barcelona.

Sunday 14 September 2014
12.10 - 12.50
Auditorium, CCIB
The agenda and accompanying documents are available at isuog.org/membership/AGM

Celebrate ISUOG’s 25th birthday!
As ISUOG approaches its 25th birthday next year, we are asking delegates to visit the Lounge to tell us what the society means to you, anything you would like to see or change and to leave a special birthday message for your fellow members!
Introducing ISUOG’s Advisory membership group

ISUOG’s Advisory membership group is set up to ensure better representation of our international membership in ISUOG decisions and new activities.

From amongst this group, we would like to acknowledge our Fellows and Ambassadors, who have made significant contributions in support of ISUOG’s mission over the years.

ISUOG Fellows

Rabih Chaoui, Pavel Calda, Stuart Campbell, Sturla Eik-Nes, Kurt Hecher, Pentti Joupilla, Davor Jurkovic, Kazuo Maeda, Karel Maršíl, Kypros Nicolaides, David Nyberg, Dario Paladini, Gianluigi Pilu, Larry Platt, Roberto Romero, Waldo Sepulveda, Ilan Timor-Tritsch, Boris Tutschek, Li Valentin, Jurij Wladimiroff, Simcha Yagel

Meet ISUOG’s Ambassadors

ISUOG’s new Ambassador program aims to support membership growth and provide educational opportunities in underrepresented regions of the world.

The following Ambassadors have been appointed in recognition of the work they are already doing to further ISUOG’s mission in key regions. We would like to acknowledge their contributions and welcome them in this role. We are looking forward to working with them all.

Dr Reem Abu-Rustum Lebanon and Outreach in the Middle East
Dr Pashant Acharya India and South Asia
Dr Fabrizio da Costa South America and Australia
Dr Lisbet Hanson North America and Outreach in Haiti
Professor Mauricio Herrera Colombia and South America
Professor Ashok Khurana India and South Asia
Dr Asma Khalil Egypt and North Africa
Dr KY Leung China
Dr Chander Lulla India and South Asia
Professor Wellington Martins Brazil
Dr Andres Mejides South America
De Mirghani Hiasham Abu Dubai and the Middle East
Dr Elena Sinkovskaya Russia
Dr Fred Ushakov Russia and Slavic regions
Dr Qingqing Wu China
Professor Abdennour Youcef-Khodja Algeria and North Africa
Dr Aly Youcef Egypt and North Africa

In memoriam

ISUOG remembers Dr Andy Mejides, a leader of education in our field, founding ISUOG member, contributor and dear friend.

Find out more at isuog.org/membership/ambassadors
Program at a Glance

Saturday 13 September 2014 - Pre-Congress courses

Room 113  Room 114 + 115  Room 112  Room 113  Room 120 + 121

07:00  REGISTRATION OPENS

08:30-17:10  Updates in prenatal diagnosis: screening for aneuploidy  Fetal echocardiography  Ultrasound in the assessment of gynecological cancer

Sunday 14 September 2014

Auditorium  Room 116 + 117  Room 112  Room 113  Room 114 + 115

07:00-09:00  REGISTRATION

09:00-10:20  Keynote lectures I

10:20-10:50  COFFEE

10:50-12:50  Plenary: Ian Donald Medal, OCC1 - Top abstracts, AGM

12:50-14:25  LUNCH & E-POSTER VIEWING

13:10-14:10  Industry sponsored satellite symposium

14:25-15:45  LIVE SCAN  Workshop: Using 3D for assessing complex structures  Basic training  Workshop: Early pregnancy complications

15:45-16:20  COFFEE & E-POSTER VIEWING

16:20-17:40  Keynote lectures II

17:40-18:10  Opening ceremony

18:15-19:45  WELCOME RECEPTION (Banquet hall)

Program key:
- Obstetrics sessions
- Gynecology sessions
- Plenary sessions
- Short oral presentations
- Masterclass sessions
- Meet the Professor sessions
- Pre-Congress courses
- Social
- Satellite symposium
- Electronic poster viewing

*See p.31-33 for exact timings including coffee & lunch breaks for pre-Congress courses
**See p.134 for our industry satellite program

Monday 15 September 2014

Room 116 + 117  Room 112  Room 114 + 115  Room 113  Room 120 + 121  Room 124 + 125


08:15-09:35  LIVE SCAN  OC02 - Screening and prognosis of major CHD  OC03 - Characterising ovarian pathology  OC04 - First trimester screening of aneuploidy and pregnancy complications  OC11 - Simulation

09:40-10:20  OP01  OP02  OP03  OP04

10:15-10:45  COFFEE & E-POSTER VIEWING

10:45-12:05  LIVE SCAN  OC05 - CHD: risk factors, predictors and associated diseases  OC06 - Ultrasound in oncology  OC07 - Ultrasound in preterm and term labour

12:10-12:50  OP05  OP06  OP07  OP08  OP09

12:45-14:15  LUNCH, E-POSTER VIEWING & MEET THE PROFESSOR SESSIONS

13:10-14:10  Industry sponsored satellite symposium  Meet the Professor roundtable sessions

14:15-15:35  LIVE SCAN  OC08 - Fetal cardiac function  OC09 - Urogynecology  OC10 - Pre-eclampsia and IUOG: screening and effects

15:40-16:20  OP10  OP14  OP12  OP13  OP11

16:15-17:45  COFFEE & E-POSTER VIEWING

16:45-18:05  LIVE SCAN  Workshop: Cardiac borderline findings  Workshop: Late onset placental disease  Workshop: IOTA
### Tuesday 16 September 2014

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<th>Room 120 + 121</th>
<th>Room 124 + 125</th>
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<tr>
<td>07:30–08:10</td>
<td>MC: A. Baschat</td>
<td>MC: B. Benacerraf</td>
<td>MC: A. Abuhamad</td>
<td>MC: E. Gratacós</td>
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<tr>
<td>08:15-09:35</td>
<td>LIVE SCAN</td>
<td>OC12 - Impact of CHD on the fetal brain</td>
<td>OC13 - Abnormal bleeding</td>
<td>OC14 - Caesarean scars and other safety issues</td>
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<td>09:40-10:20</td>
<td>OP15</td>
<td>OP16</td>
<td>OP17</td>
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<td>10:15-10:45</td>
<td>COFFEE &amp; E-POSTER VIEWING</td>
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<td>10:45-12:05</td>
<td>LIVE SCAN</td>
<td>OC15 - Advanced CNS evaluation in high risk conditions</td>
<td>OC16 - Pelvic pain and endometriosis</td>
<td>OC17 - Cardiovascular risks in IUGR</td>
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<td>12:10-12:30</td>
<td>OP19</td>
<td>OP20</td>
<td>OP21</td>
<td>OP22</td>
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<tr>
<td>12:45-14:15</td>
<td>LUNCH, E-POSTER VIEWING &amp; MEET THE PROFESSOR SESSIONS</td>
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<td>13:10-14:10</td>
<td>Industry sponsored satellite symposium</td>
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<td>Meet the Professor roundtable sessions</td>
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<td>14:15-15:35</td>
<td>LIVE SCAN</td>
<td>OC18 - Advanced imaging techniques for assessing fetal diseases</td>
<td>OC19 - Early pregnancy complications</td>
<td>OC20 - SGA or IUGR?</td>
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<tr>
<td>15:10-15:35</td>
<td>OP23</td>
<td>OP24</td>
<td>OP25</td>
<td>OP26</td>
<td>OP27</td>
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<tr>
<td>16:00-18:00</td>
<td>LIVE SCAN</td>
<td>Workshop Diagnosis and treatment of endometriosis</td>
<td>Workshop Fetoscopic therapy</td>
<td>Workshop Cardiac function</td>
<td>Workshop Brain evaluation from clinical to research applications</td>
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<td>19:30</td>
<td>CONGRESS PARTY</td>
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### Wednesday 17 September 2014

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<th>Room 120 + 121</th>
<th>Room 124 + 125</th>
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<td>07:30–08:10</td>
<td>MC: G. Pilu</td>
<td>MC: B. Benoit</td>
<td>MC: Y. Ville</td>
<td>MC: S. Goldstein</td>
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<tr>
<td>08:15-09:35</td>
<td>LIVE SCAN</td>
<td>OC21 - Managing abnormalities in the second trimester</td>
<td>OC22 - Reproductive medicine and IVF</td>
<td>OC23 - Multiple pregnancy</td>
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<td>09:40-10:20</td>
<td>OP28</td>
<td>OP29</td>
<td>OP30</td>
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<td>10:15-10:45</td>
<td>COFFEE &amp; E-POSTER VIEWING</td>
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<td>10:45-12:05</td>
<td>LIVE SCAN</td>
<td>OC24 - Assessing normal and abnormal brain development</td>
<td>OC25 - Menopause and screening</td>
<td>OC26 - Fetal interventions</td>
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<td>12:10-12:30</td>
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<td>OP32</td>
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<td>OP33</td>
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<tr>
<td>12:45-14:15</td>
<td>LUNCH, E-POSTER VIEWING &amp; MEET THE PROFESSOR SESSIONS</td>
<td></td>
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</tr>
<tr>
<td>13:10-14:10</td>
<td>Industry sponsored satellite symposium</td>
<td></td>
<td></td>
<td></td>
<td>Meet the Professor roundtable sessions</td>
</tr>
<tr>
<td>14:15-15:35</td>
<td>LIVE SCAN</td>
<td>Workshop CNS: moving beyond the basics</td>
<td>Workshop Management of infertility and reproductive medicine</td>
<td>Workshop Diagnosis, management and early-onset IUGR: lessons from the TRUFFLE study</td>
<td></td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>OP35</td>
<td>OP32</td>
<td>OP34</td>
<td>OP33</td>
<td></td>
</tr>
<tr>
<td>16:00-17:10</td>
<td>Closing plenary</td>
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<tr>
<td>17:10-18:00</td>
<td>LEAVING DRINKS &amp; WELCOME TO MONTRÉAL</td>
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</tbody>
</table>

Program key: Obstetrics sessions, Plenary sessions, Short oral presentations, Masterclass sessions, Satellite symposium, Social, Electronic poster viewing, Meet the Professor sessions **See p.134 for our industry satellite program**
Program orientation

The program at a glance gives you an outline to each day’s events including session titles, times and refreshment breaks. The full program pages give you the detailed chronological listing of all events. Please note that most sessions run in parallel so you will need to read through sessions taking place at the same time to decide which best suits your needs.

The full program is available on our itinerary planner found online at isuog.org/worldcongress/2014 or on the ISUOG2014 app where you can build your own program for the event. Please remember if you miss any presentation you will be able to view it later via our On Demand viewing terminals in the ISUOG Lounge in the exhibition hall and on the interactive digital signage in the foyer.

Session types explained...

**Plenary sessions**
Plenary sessions include invited talks and special lectures on Sunday 14 September and invited presentations as well as a debate on Caesarean scar pregnancies on Wednesday 17 September.

**Scientific sessions**
Scientific sessions run in parallel rooms from Monday to Wednesday. These sessions include invited talks, oral communication presentations (OCs) and short oral presentations (OPs). Electronic poster (P) presentations are also part of the scientific program, viewable on the On Demand platform.

**Invited talks**
ISUOG faculty members have been invited to present the state of the art on topics as overviews to sessions or in more detail within workshops. See below the colours used to differentiate between gynecology and obstetrics sessions.

**Masterclasses**
Masterclasses are focused, specialist seminars providing an overview on cutting-edge topics and insight from key experts in the field.

**Meet the Professor sessions**
These are educational roundtable discussions led by leading experts in the field over lunch. Professors will focus on case studies and delegates can come with their own questions too. Places are strictly limited to 10 per Professor session and allocated on a first come first serve basis, so delegates must book at the registration desk to secure a seat. Register between 15:00 and 18:00 the day before the session. Once fully booked we ask interested delegates to line up outside the Meet the Professor room before the start time and any unclaimed seats will be offered to those waiting in order of arrival.

**OC (oral communication)**
Presented within 3 main parallel sessions. OC abstract authors are allocated 5 minutes for their presentation, plus 3 minutes for discussion.

**OP (short oral presentation)**
OPs are poster submissions considered suitable for short oral presentation within between 4 to 5 parallel sessions depending on the Congress day. OP abstract authors are allocated 2 minutes to summarise their poster. Discussion will follow either after the presentation or at the end of the session at the discretion of the Chair.

**P (electronic poster)**
Abstracts accepted as view only posters are available for viewing throughout the Congress on the On Demand viewing terminals located in the ISUOG Lounge in the exhibition hall as single PowerPoint slides. Authors may be contacted for discussion through the integrated email facility. All ISUOG OC & OP presentations will be judged within their subject categories by the session chairpersons and the ISUOG Scientific Committee.

All OC, OP & P presentations are supported by printed abstracts, which are listed by number and can be located in the abstract book.

**Workshops**
Educational workshops take place each day and run in parallel on Sunday 14 from 14:25-16:45, Monday 15 and Tuesday 16 from 16:45-18:05 and on Wednesday 17 from 14:15–15:35. They consist of between 3 and 5 didactic lectures on key special interest areas and in some cases live scan demonstrations where appropriate. Anyone can attend these popular sessions, but on a first come, first served basis.

**Live scan**
Some scientific and workshop sessions include live scan demonstrations. Some are quite general and the aim is to give background to the session. In others, faculty have been asked to demonstrate a particular technique or technology. ISUOG has determined the content for these sessions, while our sponsors kindly support them by providing technical equipment.

**ISUOG’s basic training course**
ISUOG’s basic training course will be held on Sunday 14 September from 08:00 - 16:15 in parallel with the Congress program. This is aimed at entry level trainees beginning their career in obstetrics and gynecology providing an introduction to the basic principles of obstetric ultrasound.

**CME accreditation**

**Up to 29 CME credits are available for the Congress**

**Up to 6 CME credits are available for the pre-Congress courses**

ISUOG is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uemsnet.org.

The ‘24th World Congress on Ultrasound in Obstetrics and Gynecology’ is designated for a maximum of (or ‘for up to’) 29 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number ofAMA PRA Category 1 Credits™. Information on the process to convert EACCME credit toAMA credit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECME credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

**Access the Congress App**

Keep up to date with the program on your smartphone!

Key features include:
- Personalise your agenda and plan your day
- View recorded lectures
- Take notes during the event which you can download later
- View the venue floorplan

To access the app go to m.livegroup.co.uk/isuog2014
List of invited faculty

A. Abuhamad (USA)  
B. Abu-Rustum (Lebanon)  
J. L. Alcokar (Spain)  
M. Al-Memar (UK)  
F. Amant (Belgium)  
E. Antolin (Spain)  
A. Audibert (France)  
G. Azumendi (Spain)  
G. Chalouhi (UK)  
E. Carreras (Spain)  
S. Campbell (UK)  
E. Bujold (France)  
C. Brezinka (Austria)  
P. Barti (Spain)  
P. Bani-Soldavina (Spain)  
A. Berga (Spain)  
J. P. Baut (France)  
M. Bellington (USA)  
B. Benacerraf (USA)  
B. Benoit (France)  
A. Bhide (UK)  
C.M. Bilardo (Netherlands)  
S. Bobdilawa (UK)  
A. Boerell (Spain)  
T. Bourne (UK)  
M. Brännström (Sweden)  
C. Brezinka (Austria)  
R. Brown (Canada)  
E. Bujoj (Canada)  
S. Campbell (UK)  
E. Camar (Canada)  
J. Carvalho (UK)  
G. Chaloup (France)  
R. Chaou (Germany)  
C. Comas (Spain)  
G. Condous (Australia)  
J. Copel (USA)  
F. Crisp (Spain)  
A. Davison (UK)  
J. Deprest (Belgium)  
G. DeVore (USA)  
H.P. Dietz (Australia)  
T. Eggebre (Norway)  
S. Ek-Nes (Norway)  
P. Barri (Spain)  
E. Eixarch (Spain)  
C. Ekelund (Sweden)  
L. Platt (USA)  
E. Gratacós (Spain)  
A. Galindo (Canada)  
J.C. Fouron (Canada)  
A. Willruth This study was funded in part by a grant from the German Society of Ultrasound in Medicine and financed in part by a grant from the ICM Rennes.  
B. Stos Is the creator of HeBee and holds 50% of the society (P09.09)  
J. Steinhard The multicentre study of the Fetal Imaging Research Group Germany was supported by Toshiba Medical Systems Europe by lending US-Systems and offline Software and a grant of the DEGU (OP14.05).  
B. Stos Is the creator of HeBee and holds 50% of the society (P09.09)  
E. Quarello Is a medical advisor to Samsung (OP15.04)  
M. Moellers Receives funding of the microbial analysis and a minor allowance from Nanosonics Ltd (OP17.01).  
T. Hall Is an Advisory Board Member and receives technical support and equipment loans from Siemens Healthcare, Ultrasound Division (OP02.01).  
B. Benacerraf (USA)  
B. Benoît (France)  
A. Bhide (UK)  
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J. Carvalho (UK)  
G. Chaloup (France)  
R. Chaou (Germany)  
C. Comas (Spain)  
G. Condous (Australia)
**Chairperson, speaker & presenter guidelines**

### Essential information

If you are chairing, speaking in a session, presenting an oral communication (OC), delivering a short oral presentation (OP), or have an electronic poster (P), you will need to refer to the guidelines below. Please note that there may be several sections which are relevant to your activities. If you have any questions, please address them to the staff in the speakers’ preparation room (Room 134, first floor CCIB).

Our presentation system is networked to all session halls and all talks must be uploaded in advance. OC, OP and P presentations should have been uploaded online prior to the Congress. Those that have not been, must be uploaded in the speakers’ preparation room at least four (4) hours prior to the commencement of the session in which they are due to be presented and preferably the day before. Speakers can then check their presentation with the audio-visual staff prior to the presentation being sent to the lecture hall. Mac users and those with complex video can be accommodated. All session halls are equipped with the necessary technical requirements and back-up systems. Please note that personal laptops may not be used in the session halls. Any speaker is welcome to preview his or her talk on the system before their session.

All uploaded, oral sessions will be recorded by ISUOG and made available for viewing (but not download) to delegates and ISUOG members on ISUOG On Demand, the Congress web portal. All accepted abstract authors have been asked in advance to give their consent to the recording of their presentations. Only authors who have not completed this section will be asked to complete a release form for this onsite, and we thank you for supporting this service to our members. Please note that publication embargoes can be applied if necessary. The portal will be available on the ISUOG Lounge in the exhibition hall on the ISUOG On Demand viewing terminals and via the interactive digital signage in the foyer. Please address any queries to the technical staff in the speakers’ preparation room.

### General notes for all presenters (invited, OC and OP)

Please meet at the front of the session hall 15 minutes before the start of the session to introduce yourselves, and allow the chairperson to confirm the format for the session (please note some OP sessions will only be able to meet 5 minutes beforehand as the room will be in use. Please check the daily program to see if this affects you).

- All presentations must be in English. Please ensure that you speak slowly and clearly throughout. This will assist audience members who do not have English as their first language.
- If you are presenting an oral communication (OC) you should not present the background to your particular study or data set. This can be repetitive if several related studies are to be presented, and will be covered separately within the session if considered necessary. Time is short, so please keep your talk concise and focus only on your new data.
- Discussion time has been allocated to each session so please look at the program closely for details.
- The program schedule is extremely tight, so all speakers must adhere to the time allocated to them. Should a speaker overrun, chairpersons are instructed to interrupt and request that the speaker stop. Please be considerate of other speakers if you are asked to conclude your talk and please do so promptly.
- It is increasingly difficult to prevent individuals from recording sessions. All delegates have been requested not to do this, but ISUOG can take no responsibility for third party recordings. Please remind delegates that all sessions are recorded to On Demand and will be available to access online after the Congress. We request that speakers who specifically object to audio/video recording of their presentations state this before their lecture.
- At the closing ceremony the scientific committee will announce the best presentations within subject categories and the Young Investigator winner. Chairpersons are asked to assist in the selection process by scoring presentations.

### Chairpersons

There will be a chairpersons’ briefing on Sunday 14 September at 10:20 in the VIP room on level M1 of the CCIB to confirm session formats and demonstrate the presentation management tool. The briefing will last no longer than 30 minutes and tea, coffee and snacks will be served. Your role is crucial to our Congress success and we are grateful for your support.

- It is your responsibility to ensure strict adherence to presentation times as listed in the program and to direct and moderate discussion. There will be a countdown system in place in the main session halls to assist you with this.
- Should a speaker not arrive for his/her presentation, please fill in the additional time with discussion or, provided all other speakers are present, please move forward with the program. However please try not to deviate dramatically from the advertised program because delegates will rely on precise timing as they move across sessions.
- At the start of the session, please ask the audience to silence all mobile devices. Please remind the audience that the recording of sessions is not permitted and to refrain from any flash photography during presentations. ISUOG will record all lectures and make them available online.
- There will be a host/hostess assigned to the session hall who will assist with any requirements you may have for the running of the session. A technician from the audio-visual team will also be available.
- There will be standard microphones within each hall for discussions. Delegates will need to wait behind the microphones to ask their questions. Please direct the audience at the start of the session as to how questions will be managed to ensure the best use of time.

### Chairpersons’s briefing - Sunday 14 September at 10:20 - VIP room

Authors should have submitted their single PowerPoint poster slides in advance of the Congress. The Organisers cannot guarantee that presentations can be included if they have not been received in advance. OP and P slides will be available for viewing as posters from Sunday 14 to Wednesday 17 September 2014 in the ISUOG Lounge in the exhibition hall on the ISUOG On Demand viewing terminals. Authors can be contacted through this system, so please try and check your emails regularly in case you have been contacted by a participant who has questions.

OP authors also present their work in short oral presentation (OP) sessions:

- Presenters may report to the speaker preparation room the day before their presentation to check their presentation or can check directly on the ISUOG On Demand terminals in the ISUOG Lounge in the exhibition hall and via the interactive digital signage in the foyer.
- Presenters should arrive at the relevant session hall at least 15 minutes prior to the listed time.

### Posters - Short oral presentations (OP) and electronic posters (P)

There will be standard microphones within each hall for discussions. Delegates will need to wait behind the microphones to ask their questions. Please direct the audience at the start of the session as to how questions will be managed to ensure the best use of time.
**Masterclasses at a glance**

<table>
<thead>
<tr>
<th>Day &amp; time</th>
<th>Session</th>
<th>Presented by</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Studying the embryonic and early brain in 2D and 3D</td>
<td>R. Chaoui (Germany)</td>
<td>114 + 115</td>
</tr>
<tr>
<td>Monday</td>
<td>How to assess the pelvic floor</td>
<td>H.P. Dietz (Australia)</td>
<td>113</td>
</tr>
<tr>
<td>Monday</td>
<td>Pre-eclampsia</td>
<td>K. Nicolaides (UK)</td>
<td>116 + 117</td>
</tr>
<tr>
<td>Monday</td>
<td>Cervical length, progesterone, cerclage and pessary for the prevention of preterm birth</td>
<td>R. Romero (USA)</td>
<td>112</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Pearls in cardiac imaging</td>
<td>A. Abuhamad (USA)</td>
<td>114 + 115</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Prevention of pre-eclampsia: going beyond aspirin</td>
<td>A. Baschat (USA)</td>
<td>116 + 117</td>
</tr>
<tr>
<td>Tuesday</td>
<td>How can 3D enhance the gynecological ultrasound investigation?</td>
<td>B. Benacerraf (USA)</td>
<td>112</td>
</tr>
<tr>
<td>Tuesday</td>
<td>The integrated approach to fetal growth restriction</td>
<td>E. Gratacós (Spain)</td>
<td>113</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Use of 3D volume for a better understanding of embryo development</td>
<td>B. Benoit (France)</td>
<td>112</td>
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<tr>
<td>Wednesday</td>
<td>Ultrasound in the postmenopausal woman</td>
<td>S. Goldstein (USA)</td>
<td>113</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Sonography of fetal malpositions in labour</td>
<td>G. Pilu (Italy)</td>
<td>116 + 117</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Congenital infections</td>
<td>Y. Ville (France)</td>
<td>114 + 115</td>
</tr>
</tbody>
</table>

New to the ISUOG World Congress in 2015...

Masterclasses offer insight from key experts in their subject of choice. Join them over tea and coffee each Congress morning for these exciting state-of-the-art sessions!

**Meet the Professors at a glance**

<table>
<thead>
<tr>
<th>Day &amp; time</th>
<th>Professor</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>B. Benacerraf (USA)</td>
<td>124 + 125</td>
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<tr>
<td>Monday</td>
<td>C. Brezinka (Australia)</td>
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<tr>
<td>Monday</td>
<td>G. Condous (Australia)</td>
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<tr>
<td>Monday</td>
<td>E. Epstein (Sweden)</td>
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<tr>
<td>Monday</td>
<td>S. Goldstein (USA)</td>
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<td>Monday</td>
<td>K. Maršál (Sweden)</td>
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<td>Monday</td>
<td>G. Pilu (Italy)</td>
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<tr>
<td>Monday</td>
<td>W. Sepulveda (Chile)</td>
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<tr>
<td>Monday</td>
<td>I.E. Timor-Tritsch (USA)</td>
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<td>Tuesday</td>
<td>M. Bebbington (USA)</td>
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<td>Tuesday</td>
<td>S. Campbell (UK)</td>
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<td>Tuesday</td>
<td>J.S. Carvalho (UK)</td>
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<td>Tuesday</td>
<td>L. Platt (USA)</td>
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<tr>
<td>Tuesday</td>
<td>S. Eik-Nes (Norway)</td>
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<tr>
<td>Tuesday</td>
<td>D. Timmerman (Belgium)</td>
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<td>Wednesday</td>
<td>A. Baschat (USA)</td>
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<tr>
<td>Wednesday</td>
<td>C.M. Bilardo (Netherlands)</td>
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<td>Wednesday</td>
<td>T. Bourne (UK)</td>
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<td>Wednesday</td>
<td>K. Hecher (Germany)</td>
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<tr>
<td>Wednesday</td>
<td>J. Hyett (Australia)</td>
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<tr>
<td>Wednesday</td>
<td>C.M. Bilardo (Netherlands)</td>
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<tr>
<td>Wednesday</td>
<td>D. Jurkovic (UK)</td>
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<tr>
<td>Wednesday</td>
<td>B. Thilaganathan (UK)</td>
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<td>Wednesday</td>
<td>L. Valentin (Sweden)</td>
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</tr>
<tr>
<td>Wednesday</td>
<td>L. Valentín (Sweden)</td>
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</tbody>
</table>

Meet some of our expert faculty face to face!

Book now for Meet the Professor lunch sessions of your choice at the registration desk. Places are strictly limited to 10 attendees per Professor and allocated on a first come, first served basis. Don't miss out... book your place between 15:00 and 18:00 the day before the session.
### Short oral presentations at a glance

<table>
<thead>
<tr>
<th>Day &amp; time</th>
<th>Short oral presentation</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(09:40 - 10:20)</td>
<td>Identification and prognosis of fetal cardiac disease</td>
<td>116 + 117</td>
</tr>
<tr>
<td></td>
<td>Preterm labour</td>
<td>112</td>
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<tr>
<td></td>
<td>First trimester screening of aneuploidies and pregnancy complications</td>
<td>114 + 115</td>
</tr>
<tr>
<td></td>
<td>Characterising ovarian pathology</td>
<td>120 + 121</td>
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<tr>
<td>(12:10 - 12:50)</td>
<td>CHD: early diagnosis and new imaging methods</td>
<td>116 + 117</td>
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<tr>
<td></td>
<td>The first trimester scan</td>
<td>112</td>
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<td></td>
<td>Ultrasound in labour at term</td>
<td>114 + 115</td>
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<tr>
<td></td>
<td>Assessment of fetal wellbeing</td>
<td>113</td>
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<td></td>
<td>Ultrasound in oncology</td>
<td>120 + 121</td>
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<td></td>
<td>Fetal cardiac function to assess fetal conditions</td>
<td>116 + 117</td>
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<td></td>
<td>Multiple pregnancy I</td>
<td>120 + 121</td>
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<tr>
<td></td>
<td>Placental function and pre-eclampsia</td>
<td>114 + 115</td>
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<td></td>
<td>Advanced CNS assessment in normal and abnormal conditions</td>
<td>113</td>
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<tr>
<td></td>
<td>Urogynecology</td>
<td>112</td>
</tr>
<tr>
<td><strong>Tuesday</strong></td>
<td>Diagnosis and management of CHD</td>
<td>116 + 117</td>
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<tr>
<td>(09:40 - 10:20)</td>
<td>Abnormal bleeding</td>
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<td></td>
<td>Caesarean scars and other quality and safety issues</td>
<td>114 + 115</td>
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<td></td>
<td>Placental insufficiency</td>
<td>120 + 121</td>
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<td></td>
<td>CNS: advanced assessment of the posterior fossa and corpus callosum</td>
<td>116 + 117</td>
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<td>Pelvic pain and endometriosis</td>
<td>112</td>
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<td></td>
<td>Diagnosis and management of growth restriction</td>
<td>114 + 115</td>
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<td></td>
<td>New imaging technologies: MRI and others</td>
<td>120 + 121</td>
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<td>(12:10 - 12:50)</td>
<td>New imaging technologies: ultrasound</td>
<td>116 + 117</td>
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<td>Early pregnancy complications</td>
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<td></td>
<td>Placental disease in IUGR and pre-eclampsia</td>
<td>114 + 115</td>
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<td>Heart defects and cardiac function</td>
<td>113</td>
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<td></td>
<td>Case reports: fetal anatomy I</td>
<td>120 + 121</td>
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<td></td>
<td>Improving the accuracy of ultrasound for anomalies</td>
<td>116 + 117</td>
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<td>Growth restriction in late pregnancy</td>
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<td>Multiple pregnancy II</td>
<td>114 + 115</td>
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<td></td>
<td>Reproductive medicine</td>
<td>120 + 121</td>
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<td><strong>Wednesday</strong></td>
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<tr>
<td>(09:40 - 10:20)</td>
<td>Fetal anomalies</td>
<td>112</td>
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<td></td>
<td>Systematic reviews in gynecology</td>
<td>120 + 121</td>
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<td></td>
<td>Fetal interventions</td>
<td>114 + 115</td>
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<td></td>
<td>Chromosomal abnormalities: from borderline findings to invasive testing</td>
<td>116 + 117</td>
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<tr>
<td>(12:10 - 12:50)</td>
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Ultrasound plus: thorax, neck and diaphragm anomalies - the whole picture

Caterina Bilardo (The Netherlands), Christoph Lees (UK) & Neil Sebire (UK)

31 October - 1 November 2014
London, UK

In this two day program, our expert faculty will cover: pathology, genetics, imaging, management, delivery, neonatal care, surgery and outcomes in congenital abnormalities of the thorax, neck and diaphragm. Current areas of debate and controversy will also be considered.

At the end of the course, delegates will have an in depth specialised knowledge of the indications for intervention and delivery, where and how it should be carried out and how parents are best counselled.

ISUOG member fee: £312
Non-member fee: £362
(includes 2015 ISUOG core membership)

CME credits will be available
7 new chapters on the fetal heart

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VISUOG content and images are continually updated. Available to ISUOG members only. Chapters include fetal anomalies of the heart, brain, renal system and chest.

Start exploring at isuog.org

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Program - Saturday 13 September 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:30</td>
<td>Fetal echocardiography</td>
</tr>
<tr>
<td>08:30</td>
<td>Welcome, introduction and learning objectives</td>
</tr>
<tr>
<td>08:45</td>
<td>ISUOG guidelines, planes and indications for fetal echocardiography</td>
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<tr>
<td>09:15</td>
<td>Cardiac presets: 2D and colour Doppler</td>
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<tr>
<td>09:45</td>
<td>Multiplanar mode and STIC of the heart</td>
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<tr>
<td>10:15 - 10:45</td>
<td>Coffee</td>
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<tr>
<td>10:45</td>
<td>The common cardiac defects: the leading symptoms</td>
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<tr>
<td>11:30</td>
<td>Case reports and discussion</td>
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<tr>
<td>12:00 - 13:00</td>
<td>Lunch</td>
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<tr>
<td>13:00</td>
<td>Aortic coarctation: from diagnosis to outcome</td>
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<tr>
<td>13:45</td>
<td>Diagnosing transposition of the great arteries</td>
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<tr>
<td>14:30</td>
<td>Potentials and limitations of valvuloplasty in the fetus</td>
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<tr>
<td>15:00 - 15:30</td>
<td>Coffee</td>
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<tr>
<td>15:30</td>
<td>Cardiac and abdominal fetal venous system</td>
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<tr>
<td>16:15</td>
<td>Case reports and quiz</td>
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<tr>
<td>17:00</td>
<td>Summary</td>
</tr>
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<td>17:10</td>
<td>Close</td>
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</tbody>
</table>

For more information about VISUOG, get in touch:
E: info@isuog.org  T: +44 (0)20 7471 9955

E: info@isuog.org  T: +44 (0)20 7471 9955
Program - Saturday 13 September 2014

08:30 - 16:45 Ultrasound in the assessment of gynecological cancer: practical tips and case presentations

Chairs: J.M. Alcázar (Spain); D. Fischerová (Czech Republic); E. Epstein (Sweden)

08:30 Welcome
08:40 The role of modern imaging techniques in the assessment of a gynecological cancer patient: do we have an ideal imaging technique?
D. Fischerová (Czech Republic)
09:10 How to assess a woman presenting with adnexal mass
D. Timmerman (Belgium)
10:10 - 10:40 Coffee
10:40 Difficult ovarian tumors: case report presentation
E. Epstein (Sweden); J.M. Alcázar (Spain); D. Fischerová (Czech Republic); D. Timmerman (Belgium)
11:25 How to scan endometrial cancer: practical tips and case presentations
E. Epstein (Sweden)
12:05 - 13:05 Lunch
13:05 LIVE SCAN: how to assess the pelvis [industry supported*]
A. Testa (Italy)
13:25 How to scan cervical cancer: practical tips and case presentations
A. Testa (Italy)
13:55 LIVE SCAN: how to assess the abdomen [industry supported*]
D. Fischerová (Czech Republic)
14:35 Ovarian cancer staging
D. Fischerová (Czech Republic)
15:15 - 15:45 Coffee
15:45 How and when to perform tru-cut biopsy
E. Epstein (Sweden)
16:05 The role of new ultrasound techniques in the assessment of gyno- oncological patients
J.M. Alcázar (Spain)
16:35 Summary
16:45 Close

*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.
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*If you are unsure about what membership tier you have, please visit the ISUOG Lounge and speak to one of the team.

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**Program - Sunday 14 September 2014**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:00 - 16:15</td>
<td>ISUOG’s basic training course</td>
<td>Room 113</td>
</tr>
<tr>
<td>09:00 - 10:20</td>
<td>ISUOG keynote lectures I</td>
<td>Auditorium</td>
</tr>
<tr>
<td>10:50 - 12:50</td>
<td>Ian Donald Medal, top abstracts and ISUOG AGM</td>
<td>Auditorium</td>
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<tr>
<td>13:10 - 14:10</td>
<td>Industry sponsored satellite symposium</td>
<td>Room 116 + 117</td>
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<tr>
<td>14:25 - 15:45</td>
<td>Using 3D for assessing complex structures</td>
<td>Room 116 + 117</td>
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<td>Early pregnancy complications</td>
<td>Room 114 + 115</td>
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<td>Intrapartum ultrasound</td>
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<tr>
<td>16:20 - 17:40</td>
<td>ISUOG keynote lectures II</td>
<td>Auditorium</td>
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<tr>
<td>17:40 - 18:10</td>
<td>Opening ceremony</td>
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<tr>
<td>18:15 - 19:45</td>
<td>Welcome reception</td>
<td>Banquet hall</td>
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**Impact factor:** 3.557 (JCR® 2012)

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- View the venue floorplan

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Trainees
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ISUOG offers free online membership for two years to all trainees specialising in obstetrics and gynecology.

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If your organisation is not listed, please get in touch and we can extend the offer.

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- Web lectures & webcasts from ISUOG congresses, courses and other events
- Access to ISUOG On Demand, the Congress web portal
- Access to visuog, ISUOG’s visual encyclopedia for ultrasound in obstetrics and gynecology
- Reduced fees to ISUOG education courses, ISUOG Symposium and the World Congress

Program - Sunday 14 September 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00 - 16:15</td>
<td>ISUOG’s basic training course</td>
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<tr>
<td></td>
<td>Chairs: J. Wladimiroff (United Kingdom); C. Lees (United Kingdom)</td>
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<tr>
<td>08:00</td>
<td>ISUOG’s education and goals</td>
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<tr>
<td>08:05</td>
<td>ISUOG’s recommendations for basic training</td>
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<tr>
<td>08:15</td>
<td>Discussion</td>
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<tr>
<td>08:20</td>
<td>Getting started; how does it work and is it safe?</td>
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<td>08:40</td>
<td>Transvaginal and transabdominal ultrasound; probes and knobs</td>
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<td>09:00</td>
<td>Assessing normal early pregnancy; expected findings at different gestations, measuring size and dating</td>
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<td>09:25</td>
<td>Discussion</td>
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<tr>
<td>09:30</td>
<td>Safely diagnosing pregnancy failure and ectopic pregnancy</td>
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<td>10:00</td>
<td>Coffee</td>
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<td>10:20</td>
<td>Examination of the uterus and ovaries</td>
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<td>10:50</td>
<td>Discussion</td>
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<td>10:55</td>
<td>The cervix</td>
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<td>11:10</td>
<td>Discussion</td>
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<tr>
<td>11:15</td>
<td>The second trimester scan; malformations</td>
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<td>11:45</td>
<td>Discussion</td>
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<td>11:50</td>
<td>The first trimester scan; normal anatomy and common malformations, showing nuchal translucency</td>
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<td>12:25</td>
<td>Discussion</td>
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<tr>
<td>12:50 - 14:25</td>
<td>Lunch and e-poster viewing</td>
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<td>13:30</td>
<td>Examining twins; first, second and third trimester</td>
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<td>13:55</td>
<td>Discussion</td>
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<td>14:00</td>
<td>Image recording and quality assessment</td>
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<td>Discussion</td>
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<td>14:20</td>
<td>Fetal biometry, placenta and amniotic fluid</td>
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<td>14:45</td>
<td>Discussion</td>
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<td>14:50 - 15:10</td>
<td>Coffee and e-poster viewing</td>
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<tr>
<td>15:10</td>
<td>What is Doppler and how do we use it?</td>
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<td>15:25</td>
<td>Monitoring fetal growth</td>
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<td>15:50</td>
<td>Patient consent and communication</td>
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<td>16:05</td>
<td>Discussion</td>
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<td>16:10</td>
<td>Evaluation</td>
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<td>16:15</td>
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Keynote speaker biographies

**Professor Roberto Romero**
Professor Roberto Romero M.D., D.Med.Sc. is Chief of the Perinatology Research Branch and Head of the Program for Perinatal Research and Obstetrics at the Division of Intramural Research of NICHD/NIH. Professor Romero is a recipient of the Ian Donald Gold Medal from ISUOG (Stockholm, Sweden) and has made seminal contributions in ultrasound in obstetrics and gynecology. He is an Editor of Ultrasound in Obstetrics & Gynecology and has published more than 950 peer-reviewed publications. During the ISUOG keynote lecture, Professor Romero will focus on novel developments in ultrasound and magnetic resonance imaging in obstetrics, with particular emphasis on the role of computational methods to improve prenatal diagnosis of congenital heart disease and the assessment of fetal lung maturity. The presentation may also cover the use of functional MRI in assessing brain connectivity.

**Professor Frederic Amant**
Professor Frédéric Amant, MD, PhD is Professor in the Department of Oncology at the University of Leuven, Belgium and a specialist in Gynecologic Oncology in UZ Gasthuisberg, Leuven. As the principle investigator of an international study on cancer in pregnancy and a key member of multiple European specialist groups, including EORTC and ENITEC, Professor Amant has been described by The Lancet as ‘leading the agenda on cancer in pregnancy’. He also chairs the International Network on Cancer, Infertility and Pregnancy (NCIP). Recent publications include a series on malignancy in pregnancy published in the Lancet Oncology and Journal of Clinical Oncology, which presented new evidence on the treatment of cancer during pregnancy. During the ISUOG keynote lecture Professor Amant will give an overview of cancer treatment modalities during pregnancy. Radiotherapy and chemotherapy are possible under certain conditions without jeopardizing fetal chances. He will show that children suffer more from prematurity than from antenatal exposure to chemotherapy. In addition, the need for a multidisciplinary approach and high risk obstetrical unit will be emphasised.

**Dr Mats Brännström**
Dr Mats Brännström is Chair of the Obstetrics and Gynecology Department at the University of Gothenburg in Sweden. He is clinically active as a gynec-oncology surgeon, but his research has always been reproductive physiology and clinical advancement of female health. In January of this year Dr Brännström and his team in Gothenburg made international headlines as preliminary results were released of the first uterine transplant trial, including nine women that were transplanted with uteri from live donors. A majority of the donors were mothers. At the time Dr Brännström commented that ‘this is a new kind of surgery, we have no textbooks to look at’. It has now passed well over a year since the last transplantation and at this stage embryo transfers have started in seven women to achieve pregnancies. Together with a previous single uterus transplantation case (from deceased donor) in Turkey, these seven Swedish women make up the total cohort of eight women with viable uterine grafts. During the ISUOG keynote lecture Dr Brännström will present details on the surgical technique of live-donor uterus transplantation and the clinical results so far of this first uterus transplantation trial.
Program - Sunday 14 September 2014

Attend the ISUOG AGM

All ISUOG members (including all delegates) are warmly invited to join us for an update on ISUOG activities and to vote on ISUOG business at the Annual General Meeting (AGM) in Barcelona.

Sunday 14 September 2014
12.10 - 12.50
Auditorium, CCIB
The agenda and accompanying documents are available at isuog.org/membership/AGM

12:50 - 14:25 Lunch and e-poster viewing
Banquet hall

13:10 - 14:10 Industry sponsored satellite symposium**
Room 116 + 117

14:25 - 15:45 Workshop: Using 3D for assessing complex structures
Room 116 + 117
Chairs: R. Chaoui (Germany); L. Platt (United States)
14:25 LIVE SCAN: assessing the bony structures [industry supported*]
L. Platt (United States)
14:45 Is 3D really needed in the assessment of posterior fossa?
D. Paladini (Italy)
15:05 3D assessment of optic chiasm
J. Bault (France)
15:25 Cardiac assessment
R. Chaoui (Germany)

14:25 - 15:45 Workshop: Early pregnancy complications
Room 114 + 115
Chairs: T. Bourne (United Kingdom); G. Condous (Australia)
14:25 Definitively diagnosing pregnancy failure: confirming cut-off values, time between scans and appearance of structures
T. Bourne (United Kingdom)
14:45 Practical application of prediction models to manage Pregnancy of Unknown Location (PUL)
S. Bobadiwala (United Kingdom)
15:05 What should I give in practice to women with recurrent miscarriage: aspirin, heparin, progesterone, steroids? Or offer nothing? Should I give progesterone routinely to all women with bleeding in early pregnancy anyway?
S. Quenby (United Kingdom)
15:25 Selecting women for conservative management strategies for miscarriage and ectopic pregnancy
G. Condous (Australia)

12:10 ISUOG AGM

Keynote speaker biographies

Antonio Pellicer
Professor Antonio Pellicer is Full Professor of the Department of Obstetrics and Gynaecology at the University of Valencia and Director of the Department of Women’s Health at Hospital Universitario La Fe. He was Dean of the University’s School of Medicine (2006-2012) and has won many awards for his significant contribution to the field of reproductive health, including six times winner of the American Society for Reproductive Medicine between 1987 and 2006. In 1990 Professor Pellicer founded the Instituto Valenciano de Infertilidad (IVI), a world leading institution in the field of assisted reproduction, combining cutting-edge research, teaching and social action to improve treatments available to women. He is currently Co-Editor-in-Chief of Fertility & Sterility, the Official Journal of the American Society for Reproductive Medicine. During the ISUOG Keynote lecture Professor Pellicer will update the audience about the relevance of the endometrium in the implantation process in humans as well as the current molecular tools to improve implantation in assisted reproduction.

Romain Quidant
Professor Romain Quidant carries out his research at ICFO, The Institute of Photonic Sciences, in Barcelona where he leads the group of “Plasmon nanooptics”. His research focuses on the study of the optical properties of metal nano-structures, known as surface plasmons. The activities of his group cover both fundamental and applied research. The fundamental part of his work is mainly directed towards enhancing light/matter interaction for quantum optics. From a more applied viewpoint, his group investigates new strategies to control light and heat at the nanometre scale for biomedical applications, including early detection and photothermal therapy of cancer. His research trajectory has been acknowledged by several national and international prizes among which the Fresnel prize from the European Physics Society (2009), the prizes of the City of Barcelona (2010) and the Fundació Príncep de Girona (2010) as well as the 2012 ICO prize from the International Commission for Optics.

Kypros Nicolaides
Professor Kypros Nicolaides is Director of the Harris Birthright Research Centre for Fetal Medicine based at Kings College Hospital London and Founding Director of The Fetal Medicine Foundation. Professor Nicolaides trained at Kings College under the mentorship of Professors Stuart Campbell and Charles Rodeck where he specialised in fetoscopic techniques and procedures. He was awarded the ISUOG Ian Donald Gold Medal in 1999 for his outstanding contribution to the field, recognised in particular for his many publications on fetal physiology and pioneering more effective antenatal screening and fetoscopy techniques. His research publications on imaging and prenatal diagnosis have transformed ultrasound practice and his work to implement quality control for nuchal translucency has led to this technique becoming an established screening test for Down syndrome and other genetic conditions.
Program - Sunday 14 September 2014

14:25 - 15:45 Workshop: Intrapartum ultrasound  
Room 112

Chairs: K. Kalache (Germany); F. Molina (Spain)

14:25 Introduction

14:30 Ultrasound in the first stage of labour: benefits for the mother  
T. Eggebø (Norway)

14:50 Discussion

14:55 Evidence of the indications and contribution to improved management  
F. Molina (Spain)

15:15 Discussion

15:20 Video demonstration: techniques for assessing fetal head position and station at full dilatation  
K. Kalache (Germany)

15:40 Discussion

15:45 - 16:20 Coffee and e-poster viewing  
Banquet hall

16:20 - 17:40 ISUOG keynote lectures II  
Auditorium

Chairs: A. Ngu (Australia); R. Romero (United States)

16:20 Technical advances in sub-fertility  
A. Pellicer (Spain)

16:45 Bioplasmonics: designing novel nanotools for medicine  
R. Quidant (Spain)

17:10 Screening for aneuploidies by cf DNA testing  
K. Nicolaides (United Kingdom)

17:40 - 18:10 Opening ceremony  
Auditorium

Chairs: E. Gratacós (Spain); A. Ngu (Australia)

18:15 - 19:45 Welcome reception  
Banquet hall

Program - Monday 15 September 2014

07:30 - 08:10 Masterclass sessions

08:15 - 09:35 Screening and prognosis of major CHD  
Room 116 + 117

Characterising ovarian pathology  
Room 112

First trimester screening of aneuploidies and pregnancy complications  
Room 114 + 115

The use of simulation models in ultrasound in obstetrics and gynecology  
Room 113

09:40 - 10:20 Identification and prognosis of fetal cardiac disease  
Room 116 + 117

Preterm labour  
Room 112

First trimester screening of aneuploidies and pregnancy complications  
Room 114 + 115

Characterising ovarian pathology  
Room 120 + 121

10:45 - 12:05 CHD: risk factors, predictors and associated diseases  
Room 116 + 117

Ultrasound in oncology  
Room 112

Ultrasound in preterm and term labour  
Room 114 + 115

12:10 - 12:50 CHD: early diagnosis and new imaging methods  
Room 116 + 117

The first trimester scan  
Room 112

Ultrasound in labour at term  
Room 114 + 115

Assessment of fetal wellbeing  
Room 113

Ultrasound in oncology  
Room 120 + 121

13:10 - 13:55 Fetal cardiology  
Room 116 + 117

Urogynecology  
Room 112

13:50 - 14:30 Fetal cardiology  
Room 116 + 117

Urogynecology  
Room 112

14:15 - 15:35 Fetal cardiac function  
Room 116 + 117

Urogynecology  
Room 112

Pre-eclampsia and IUGR: screening and effects  
Room 114 + 115

15:40 - 16:20 Fetal cardiac function to assess fetal conditions  
Room 116 + 117

Multiple pregnancy I  
Room 120 + 121

Placental function and pre-eclampsia  
Room 114 + 115

Advanced CNS assessment in normal and abnormal conditions  
Room 113

Urogynecology  
Room 112

16:45 - 18:05 Urogynecology  
Room 116 + 117

Cardiac borderline findings  
Room 112

Late onset placental disease  
Room 114 + 115

IOTA  
Room 113

ISUOG welcomes Professor Charles Rodeck to Barcelona to receive its most prestigious award, the Ian Donald Gold Medal, in recognition of his outstanding contribution to the field of ultrasound in obstetrics and gynecology.

Professor Rodeck’s contributions are primarily in prenatal diagnosis and the treatment of genetic and congenital disorders and include over 600 publications in peer-reviewed journals; pioneering invasive diagnostic and therapeutic procedures; and a revered contribution to teaching. Professor Rodeck has trained five of the current UK Professors in Fetal Medicine.

He published the first description of clinical fetal intravascular transfusion, devising safe and reliable techniques for this and other fetal anomalies including the famous ‘Rodeck’ shunt for treating pleural effusions and urinary tract obstruction. This work helped to establish Fetal Medicine as a sub specialty within obstetrics and gynecology.

More recently, while at University College London (1990 - 2007) he initiated major research advances in fetal physiology, perinatal brain injury, pre-implantation genetic diagnosis and gene and stem cell therapy for fetal growth restriction. Now retired, he remains Emeritus Professor of Obstetrics and Gynecology at UCL and is active in numerous professional societies.
**ISUOG Education 2015**

**Intensive courses - Register now**

**Fetal anomalies: head and heart**
Chairs: J. Carvalho (UK); G. Malinger (Israel)
23 - 24 January, London, UK

**Advanced obstetric Doppler**
Chairs: C.M. Bilardo (Netherlands); C. Lees (UK)
24 April, London, UK

**Other topics requested for 2015:**
- Urogynecology
- Ultrasound in labour
- Endometriosis
- 3D/4D in gynecology
- Placental pathology and anomalies
- Genetic screening
- Early pregnancy

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**Program - Monday 15 September 2014**

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<td>07:30 - 08:10</td>
<td>Masterclass sessions</td>
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<tr>
<td>08:15</td>
<td>Studying the embryonic and early brain in 2D and 3D</td>
<td>114  + 115</td>
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<tr>
<td></td>
<td>R. Chaoui (Germany)</td>
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<tr>
<td>08:35</td>
<td>How to assess the pelvic floor</td>
<td>113</td>
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<td></td>
<td>H.P. Dietz (Australia)</td>
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<td>08:40</td>
<td>Pre-eclampsia</td>
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<td>K. Nicolaides (United Kingdom)</td>
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<tr>
<td>08:51</td>
<td>Cervical length, progesterone, cerclage and pessary for the</td>
<td>112</td>
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<td></td>
<td>prevention of preterm birth</td>
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<td></td>
<td>R. Romero (United States)</td>
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<tr>
<td>08:15 - 09:35</td>
<td>Screening and prognosis of major CHD</td>
<td>116  + 117</td>
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<tr>
<td>08:15</td>
<td>WHAT IS THE BEST CURRENTLY AVAILABLE TEST TO CLASSIFY OVARIAN MASSES?</td>
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<tr>
<td></td>
<td>J.S. Carvalho (United Kingdom)</td>
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<tr>
<td>08:35</td>
<td>First trimester 2D cardiac assessment for congenital heart diseases</td>
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<td></td>
<td>S. Tudorache; D.G. Blescu; M. Cara; F. Burada; M. Ioana; C. Simonescu;</td>
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<tr>
<td></td>
<td>L. Novac; N. Cernea; D. Cernea (Romania)</td>
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<tr>
<td>08:40</td>
<td>Discussion</td>
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<tr>
<td>08:43</td>
<td>Conotruncal anomalies: how effective is first trimester diagnosis?</td>
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<td></td>
<td>M. Wiechec; A. Nocun; D. Stettnar; A. Knafel (Poland)</td>
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<td>08:48</td>
<td>Discussion</td>
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<td>08:51</td>
<td>Systematic examination of the fetal precordial veins: a large cohort</td>
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<td></td>
<td>S. Yagel; S. Cohen; D.V. Valsky; O. Shen; M. Lipschuetz; B. Messing (Israel)</td>
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<tr>
<td>08:56</td>
<td>Discussion</td>
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<tr>
<td>08:59</td>
<td>Axysos vein/descending aorta ratio in normal fetuses and fetuses with</td>
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<td>interrupted inferior vena cava</td>
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<td>H. Xie; L. Wu (China)</td>
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<tr>
<td>09:04</td>
<td>Discussion</td>
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<tr>
<td>09:07</td>
<td>Antenatal prediction of neonatal death in single ventricle congenital heart disease</td>
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<td></td>
<td>S.M. Lee; J.E. Kwon; S.H. Song; G.B. Kim; J.Y. Park; B.J. Kim; J.H. Lee;</td>
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<tr>
<td></td>
<td>C.W. Park; J.S. Park; J.K. Jun (Republic of Korea)</td>
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<tr>
<td>09:12</td>
<td>Discussion</td>
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<tr>
<td>09:16</td>
<td>The effective fetal screening using the distance between the</td>
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<td></td>
<td>descending aorta and left atrial posterior wall in four chamber view</td>
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<td>for Total Anomalous Pulmonary Venous Return</td>
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<td></td>
<td>M. Kawatsuki (Japan)</td>
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<tr>
<td>09:20</td>
<td>Discussion</td>
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<tr>
<td>09:23</td>
<td>Take-home clinical messages</td>
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<td></td>
<td>A. Abuhamad (United States)</td>
<td></td>
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<tr>
<td>08:15 - 09:35</td>
<td>Characterising ovarian pathology</td>
<td>112</td>
</tr>
<tr>
<td>08:15</td>
<td>WHAT IS THE BEST CURRENTLY AVAILABLE TEST TO CLASSIFY OVARIAN MASSES?</td>
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<td></td>
<td>J. Kaiser (Belgium)</td>
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*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.*
### MONDAY PROGRAM

**Program - Monday 15 September 2014**

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<tr>
<th>Time</th>
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<tr>
<td>08:35</td>
<td>MRI and ultrasound fusion imaging for ovarian tumor</td>
<td>OC03.01 J. Levaillant, P. Capmas, C. Théodore, N. Chabi, H. Fernandez; C. Touboul (France)</td>
</tr>
<tr>
<td>08:40</td>
<td>Discussion</td>
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<tr>
<td>08:43</td>
<td><strong>&quot;Does HE4 improve the diagnosis of pelvic masses in non-experienced examiners?</strong></td>
<td>OC03.02 B. Erdodi, Z. Krasznai, L. Ördög, E. Makó, H. Balla, Z. Tóth; A. Jakab (Hungary)</td>
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<tr>
<td>08:48</td>
<td>Discussion</td>
<td></td>
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<tr>
<td>08:51</td>
<td>IOTA simple rules for classifying adnexal masses: a comparative study between two centers with different ovarian cancer prevalence and experience on gynecological ultrasound</td>
<td>OC03.03 B. Ruiz de Gauna, J.M. Alcázar, D. Rodriguez, M. Aubá; B. Olartecoechea, M. Gómez Roig, T. Errasti, M. Jurado (Spain)</td>
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<tr>
<td>08:56</td>
<td>Discussion</td>
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<tr>
<td>08:59</td>
<td>Role of HE4, CA125, ROMA and ultrasound findings for adnexal mass differential diagnosis</td>
<td>OC03.04 C. Ros, M. Martínez-Serrano, M. Rius; R. Molina, P. Fuste (Spain)</td>
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<tr>
<td>09:04</td>
<td>Discussion</td>
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<td>09:07</td>
<td>Contribution of 3D power Doppler angiography (3D-PDA) technique in the differential diagnosis of adnexal masses</td>
<td>OC03.05 J.M. Alcázar; J.Utrilla-Layna; S. Guerrero; B. Olartecoechea; T. Errasti; M. Murguez; M. Jurado (Spain); (Italy)</td>
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<tr>
<td>09:12</td>
<td>Discussion</td>
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<td>09:15</td>
<td>An evaluation of the role of preoperative transvaginal ultrasound as a triage tool for the management of adnexal masses</td>
<td>OC03.06 U. Menakaya; P. Shetty; S. Reid; C. Lu; F. Infante; G. Condous (Australia); (United Kingdom)</td>
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<td>09:20</td>
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<td>09:23</td>
<td>Ultrasound diagnosis of serous surface papillary borderline ovarian tumor: a case series</td>
<td>OC03.07 M. Ludovici; X. Foo; S. Mainenti; A.C. Testa; R. Arora; D. Jurkovic (United Kingdom); (Italy)</td>
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<td>09:28</td>
<td>Discussion</td>
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<tr>
<td>08:15 - 09:35</td>
<td><strong>First trimester screening of aneuploidies and pregnancy complications</strong></td>
<td>Room 113 + 115</td>
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<tr>
<td>08:15</td>
<td><strong>Chairs:</strong> C.M. Bilardo (Netherlands); N. Maiz (Spain)</td>
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<tr>
<td>08:15</td>
<td>Screening for fetal anomalies in the first trimester</td>
<td>OC04.01 J. Hyett (Australia)</td>
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<td>08:35</td>
<td><strong>&quot;Newborn with Down’s syndrome: first trimester screening or not?</strong></td>
<td>OC04.02 C.B. Miltoft; C.B. Wulff; S. Kjørgaard; C.K. Ekulund; A. Tabor (Denmark)</td>
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<td>08:40</td>
<td>Discussion</td>
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<td>08:43</td>
<td>A novel counting algorithm to detect common fetal trisomies in non-invasive prenatal testing by maximal parallel sequencing and cross-platform validation results</td>
<td>OC04.03 M. Chen (Taiwan)</td>
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<td>08:48</td>
<td>Discussion</td>
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*This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).*
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<td>Validation of video recording scoring system in assessing trainee</td>
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<td>competency in transvaginal ultrasound skills</td>
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<td></td>
<td>A.M. Alsalami; D. Albalushi; K. Hood; N.D. Pugh; N.N. Amso (United Kingdom)</td>
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<tr>
<td>09:16</td>
<td>Discussion</td>
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<td>09:19</td>
<td>What do end-users think about simulation in obstetrical and</td>
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<td>gynecological ultrasound?</td>
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<td></td>
<td>N.J. Hajal; G.E. Chaleouh; V. Bernardi; L.J. Salomon; Y. Ville (France)</td>
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<td>09:24</td>
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<td>Chairs: G. DeVore (United States); Z. Tian (United States)</td>
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<td>Room 112</td>
<td>OP02: Preterm labour</td>
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<td>Chairs: R. Romero (United States); E. Carreras (Spain)</td>
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<tr>
<td>Room 114 + 115</td>
<td>OP03: First trimester screening of aneuploidies and pregnancy</td>
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<td>complications</td>
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<td>Chairs: L. Poon (United Kingdom); E. Antolin (Spain)</td>
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<tr>
<td>Room 120 + 121</td>
<td>OP04: Characterising ovarian pathology</td>
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<td>Chairs: L. Platt (United States); M. Pascual (Spain)</td>
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### Coffee and e-poster viewing

**Banquet hall**

### CHD: risk factors, predictors and associated diseases

**Room 116 + 117**

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<td></td>
<td>OP01: Identification and prognosis of fetal cardiac disease</td>
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<td></td>
<td>Chairs: T.K. Lau (Hong Kong); E. Hernandez-Andrade (United States)</td>
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<td>LIVE SCAN: first trimester echocardiography [industry supported*]</td>
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<td></td>
<td>R. Chaul (Germany)</td>
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<td></td>
<td>10:05 Can hydrochloroquine (HCQ) reduce the risk of recurrent fetal</td>
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<td>heart block?</td>
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<td></td>
<td>J.A. Copel; P. Izmirny; N. Costedoat-Chalumeau; A. Saxena; A. Zinc; T.</td>
</tr>
<tr>
<td></td>
<td>Middleton; D. Friedman; J.P. Buyon</td>
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<td></td>
<td>(United States); (France)</td>
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<tr>
<td></td>
<td>11:10 Discussion</td>
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<td></td>
<td>11:13 Increased nuchal translucency origins from abnormal lymphatic</td>
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<td>development and develops regardless of the presence of a congenital</td>
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<td></td>
<td>heart defect</td>
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<td></td>
<td>N. Burger; M. Bekker; C.J. De Groot; J.F. Martin; W. Shou; P. Scambler;</td>
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<tr>
<td></td>
<td>Y. Lee; E. Choi; V.M. Christoffels; M.C. Haak</td>
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<tr>
<td></td>
<td>(Netherlands); (United States); (United Kingdom)</td>
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<td></td>
<td>11:18 Discussion</td>
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<td></td>
<td>11:21 Maternal and fetal angiogenic imbalance in euploid and Down’s</td>
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<td>syndrome congenital heart defects</td>
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<td></td>
<td>E. Urrutia; A. Ruiz; Q. Ferrer; O. Sánchez; L. Cabero; E. Carreras</td>
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<td>(Spain)</td>
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<td>11:26 Discussion</td>
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<td>11:29 Maternal hyperoxygenation improves left heart filling in the</td>
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<td>fetus with atrial septal aneurysm causing impediment to left ventricular</td>
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<td></td>
<td>inflow</td>
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<td></td>
<td>J. Rychik; A. Channing; Z. Tian (United States)</td>
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<td>11:34 Discussion</td>
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<tr>
<td>11:37</td>
<td>Absent ductus venosus: prognosis in the era of first trimester screening</td>
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<td>for chromosomal abnormalities</td>
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<td>G. Ferrer; P. Prais; S. Arevalo; E. Carreras; E. Lurba (Spain)</td>
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<tr>
<td>11:42</td>
<td>Discussion</td>
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<tr>
<td>11:45</td>
<td>In 2014, does the fetus from assisted reproductive technology (ART)</td>
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<td>require a targeted fetal echocardiogram (FECHO) after a complete fetal</td>
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<td>anatomy ultrasound examination (scan) shows findings of a normal heart?</td>
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<td>D.C. Wood; S. Weiner; S. Shah; R.M. Kline; B. Wood (United States)</td>
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<tr>
<td>11:50</td>
<td>Discussion</td>
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<tr>
<td>11:53</td>
<td>Perinatal outcome of fetuses with absence of ductus venous (ADV)</td>
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<td>I. Vives; M. Bennasar; O. Gómez; F. Crispi; N. Masoller; E. Marimon;</td>
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<td>E. Gratacós; J. Martínez (Spain)</td>
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<td>11:58</td>
<td>Discussion</td>
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### Ultrasound in oncology

**Room 112**

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<td>10:45</td>
<td>Agreement between preoperative transvaginal ultrasound and intraoperative frozen section for estimating myometrial invasion in low-risk endometrial cancer</td>
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<td>J.M. Alcázar; L. Pineda; C. Vilhena; J. Juez; J. Utrilla-Laya; J. Minguez; M. Jurado</td>
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<td></td>
<td>(Spain); (Portugal)</td>
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<tr>
<td>11:10</td>
<td>Discussion</td>
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<td>11:13</td>
<td>Subjective ultrasound assessment and ultrasound-guided tru-cut biopsy</td>
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<td>to differentiate primary ovarian cancer from metastatic non-ovarian cancer</td>
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<td>E. Epstein; S. Nikman (Sweden)</td>
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<tr>
<td>11:18</td>
<td>Discussion</td>
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<tr>
<td>11:21</td>
<td>Diagnostic accuracy of preoperative TVUS in endometrial cancer and</td>
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<td></td>
<td>comparison to frozen section in terms of myometrial and cervical invasion</td>
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<td></td>
<td>D. Franchi; A. Vidal Urbinat; R. Puértolas; S. Boveri; C. Di Tommaso;</td>
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<td>G. Aletti; S. Mario (Italy)</td>
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<tr>
<td>11:26</td>
<td>Discussion</td>
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<tr>
<td>11:29</td>
<td>Agreement of 2D and 3D ultrasound and magnetic resonance imaging in the assessment of rectosigmoid infiltration in primary or recurrent ovarian cancer</td>
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<td>V. Chiappa; M. Zikan; R. Kociarcik; F. Frühaußer; A. Dueckelmann; P.</td>
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<td>Durand; D. Cibula; D. Fischerová (Czech Republic); (Germany)</td>
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<tr>
<td>11:34</td>
<td>Discussion</td>
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<tr>
<td>11:37</td>
<td>Conservative management and ultrasonographic longitudinal follow-up of</td>
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<td>borderline ovarian tumor recurrences after fertility sparing surgery</td>
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<td></td>
<td>D. Franchi; A.C. Testa; S. Boveri; R. Davide; S. Mario; N. Colombo (Italy)</td>
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<tr>
<td>11:42</td>
<td>Discussion</td>
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<tr>
<td>11:45</td>
<td>The ultrasound-measured tumor-free distance (uTDF) is a valuable</td>
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<td>predictor of lymph node status in endometrial cancer</td>
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<td>M. Lino; M. Sniadecki; E. Wyczynka; S. Wójtyłak; A. Białek; S. Sawicki;</td>
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<tr>
<td></td>
<td>D. Wydra (Poland)</td>
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<tr>
<td>11:50</td>
<td>Discussion</td>
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</table>
11:53 MRI and ultrasound fusion imaging for cervix cancer
J. Levaillant; P. Capmas; C. Théodore; N. Chabi; H. Fernandez;
C. Toubout (France)
OC06.07
11:58 Discussion

10:45 - 12:05 Ultrasound in preterm and term labour
Room 114 + 115
Chairs: G. Pilu (Italy); T. Eggebø (Norway)

10:45 Demonstrating the use of ultrasound in the management of labour
T. Eggebø (Norway)
10:53 Comparison of six methods of first trimester cervical measurements:
reproducibility and predictive value for preterm delivery
M. Joubert; B. Deloison; Y. Ville; L.J. Salomon (France)
OC07.01
11:05 Discussion
11:10 Clinical significance of the presence of amniotic fluid ‘sludge’ in
asymptomatic patients at low and high risk for spontaneous
preterm delivery
A.R. Hatanaoka; R. Mattar; T. Kawanami; M.S. Franga; L.C. Rojo;
R.M. Nomura; E. Araujo Junior; L. Nardozza; A.F. Moron (Brazil)
OC07.02
11:13 Discussion
11:18 Short cervical length and low levels of circulating T-regulatory
lymphocytes are associated with preterm labour
M. Koucký; K. Matěčková; P. Calda (Czech Republic)
OC07.03
11:21 Discussion
11:26 Adjusted cervical length for gestational age as predictor of urgent
delivery in pregnancies complicated by placenta previa
M. Garcia-Espinosa; E. Cisneros-Bedoy; S. Rosales-Ortiz;
O. Martinez-Rodriguez; S. Lopez-Jimenez; O. Menecico-Avanz (Mexico)
OC07.04
11:29 Discussion
11:37 Comparison of pain score between translabial ultrasound and digital
vaginal examination during active labour
Y. Chaï; W. Lau; T. Lo; W. Leung (Hong Kong)
OC07.05
11:34 Discussion
11:42 The suboptimal angle measured by a novel 3D ultrasound technique and
the mode of delivery in low-risk nulliparous women
A. Younessi; F. Martelli; E. Montaguti; G. Salsi; G. Pilu; N. Rizzo;
T. Ghı (Italy)
OC07.06
11:45 Discussion
11:50 Take-home clinical messages
G. Pilu (Italy)

12:10 - 12:50 Short oral presentation (OP) sessions

OP05: CHD: early diagnosis and new imaging methods
Chairs: R. Chauoi (Germany); C. Comas (Spain)
Room 116 + 117
OP06: The first trimester scan
Chairs: C.M. Bilardo (Netherlands); F. Audibert (Canada)
Room 112
OP07: Ultrasound in labour at term
Chairs: K. Kalache (Germany); G.E. Chalouhi (France)
Room 114 + 115
OP08: Assessment of fetal wellbeing
Chairs: A. Bhide (United Kingdom); R. Schild (Germany)
Room 113
OP09: Ultrasound in oncology
Chairs: D. Fischereová (Czech Republic); J.M. Alcázar (Spain)
Room 120 + 121

12:45 - 14:15 Lunch and e-poster viewing
Banquet hall

13:00 - 14:00 Industry sponsored satellite symposium*
Room 116 + 117

13:15 - 14:00 Meet the Professor roundtable sessions
Room 124 + 125

14:15 - 15:35 Fetal cardiac function
Chairs: J. Copel (United States); H. Gardiner (United States)

14:15 LIVE SCAN: myocardial imaging for assessing the fetal heart
[industry supported]*
F. Crispi (Spain)
OC08.01
14:35 Prospective evaluation of cardiac functional parameters in healthy fetuses
using Speckle Tracking Echocardiography at 12-37 weeks’ gestation
S. Bonalumi; M. Bellotti; L. Adamo; G.C. Tiso; S. Della Grazia;
G.C. Rognoni; A. Marconi (Italy)
OC08.02
14:40 Discussion
14:43 Automation of the fetal myocardial performance index
J. Wang; S. Redmond; A. Henry; A.W. Welsh (Australia)
OC08.03
14:48 Discussion
14:51 Differential effects of assisted reproductive technologies and
intrauterine growth restriction on fetal cardiac remodelling
B. Valenzuela-Alcaraz; M. Cruz-Lemini; B. Bijvens; F. FIGUERAS;
J. Balasch; F. Crispi; E. Gratacós (Spain)
OC08.04
14:56 Discussion
14:59 Fetal cardiac function in late IUGR versus SGA defined by estimated
fetal weight, cerebro-placental ratio and uterine artery Doppler
M. Pérez Cruz; F. Crispi; M. Fernández; J. Parra; M. Gómez Roig;
E. Gratacós (Spain)
OC08.05
15:04 Discussion
15:07 Cardiac function in early childhood in relation to angiogenic factors in
cord blood in fetal growth restriction
E. Llurba; Q. Ferrer; J. Candel; A. Ruiz; M. Gómez Roig;
E. Carreras (Spain)
OC08.06
15:12 Discussion
15:15 Evaluation of cardiac function assessed by colour-coded tissue Doppler
(C-TDI) in fetuses with left ventricular outflow tract (LVOT) obstruction
C. Enzensberger; L. Wieg; J. Degenhardt; O. Graupner; A. Tenzer;
M. Jansen; *Fetal Cardiac Imaging Research Group;
R. Axt-Fliedner (Germany)
OC08.07
15:20 Discussion
15:23 Clinical messages
J. Copel (United States)

*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.
**Lunchtime satellite symposia are brought to you by our sponsors and are not part of the ISUOG CME program. ISUOG takes no responsibility for scientific or clinical content. Please see page 134 for our satellite program.
14:15 - 15:35 Urogynecology  Room 112

14:15 The perils of vaginal delivery  J. Deprest (Belgium)
14:35 Follow-up of sacrocolpopexy mesh implants  OC09.01
V.H. Eisenberg (Israel) & OC09.02
14:40 Discussion
14:43 What is ‘significant descent’ of the uterus on pelvic floor ultrasound?  OC09.03
C. Shek; H.P. Dietz (Australia)
14:48 Discussion
14:51 Determination of levator ani muscle lesions in instrumental delivery with vacuum using transperineal 3D-4D ultrasonography  OC09.04
J. García Mejido; L. Gutierrez Palomino; V. Caballero Fernandez; J. Sainz Bueno (Spain)
14:56 Discussion
14:59 Intrapartum predictors of pelvic floor trauma  OC09.05
J. Caudwell-Hall; I. Kamisan Atan; R.A. Guzman Rojas; S.E. Langer; C. Shek; H.P. Dietz (Australia)
15:04 Discussion
15:07 A novel 3D ultrasound technique for assessing pelvic hiatal area and diagnosing levator muscle avulsion in asymptomatic women  OC09.06 & OC09.07
A. Youssef (Italy)
15:12 Discussion
15:15 The association of urinary and fecal incontinence with pelvic floor muscle contractility  OC09.09
S.H. Overgard4; I. Kamisan Atan; C. Shek; H.P. Dietz1 (Norway); 2(Australia)
15:20 Discussion
15:23 Assessment of puborectalis muscle echogenicity: effect of BMI, age, sport activity and ultrasound probe pressure  OC09.10 & OC09.11
A. Grob (Netherlands)
15:28 Discussion

14:15 - 15:35 Pre-eclampsia and IUGR: screening and effects  Room 114 + 115

14:15 Prevention of pre-eclampsia  A. Baschat (United States)
14:35 A prospective study of screening for hypertensive disorders of pregnancy at 11 to 13 weeks  OC10.01
R.B. Skråstad1,1; G. Hov1; H.K. Blaas1; P. Romundstad1; KÅ. Salvesen1,2 (Norway); 2(Sweden)
14:40 Discussion
14:43 Validation of a first-trimester screening model for pre-eclampsia in a routine care low-risk setting  OC10.02
E. Sciarrochio; F. Crovetto; S. Triunfo; E. Gratacós; F. Figueras (Spain)
14:48 Discussion
14:51 Maternal systemic circulation in normotensive pregnancies and those complicated by pre-eclampsia  OC10.03
M. Morlando; B. Thilaganathan; E. Mantovani; E. Sheehan; A.T. Papageorghiou; A. Bhide; A. Khalil (United Kingdom)
14:56 Discussion

*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.
### MONDAY SHORT ORAL PRESENTATIONS

#### OP01: Identification and prognosis of fetal cardiac disease

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<td>Identification and prognosis of fetal cardiac disease</td>
<td>G. DeVore (United States); Z. Tian (United States)</td>
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<td>16:50</td>
<td>Head circumference growth in isolated fetal heart defects</td>
<td>F. Jansen (Netherlands)</td>
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<td>17:10</td>
<td>Diagnostic accuracy of prenatal echocardiography in congenital heart disease</td>
<td>C. van Velzen (Netherlands)</td>
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<td>17:35</td>
<td>Contribution of ductus venosus blood flow in first-trimester screening for detection of major cardiac defects</td>
<td>N. Karadzov-Orlic (Serbia)</td>
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<td>Clinical usefulness of SVC converging view</td>
<td>K. Kim (Republic of Korea)</td>
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<td>18:00</td>
<td>Large left ventricular aneurysms: not too bad</td>
<td>V. Gjørup (Denmark)</td>
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<td>18:15</td>
<td>Fetal echocardiography predicts postnatal treatment strategy for the fetus with pulmonary atresia or severe pulmonary stenosis</td>
<td>L. Cao (China)</td>
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#### OP02: Preterm labour

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<td>Tocolysis with extended-release nifedipine in normotensive pregnant women; fetal vascular effects</td>
<td>O. Tica (Romania)</td>
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<td>16:50</td>
<td>Quantitative ultrasound backscatter parameters in the human cervix</td>
<td>T.J. Hall (United States)</td>
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<td>17:10</td>
<td>Assessing fetal growth late in pregnancy</td>
<td>L. Salomon (France)</td>
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<td>17:35</td>
<td>Identifying and managing late-onset IUGR: update on recent evidence</td>
<td>F. Figueras (Spain)</td>
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<td>17:40</td>
<td>Third-trimester prediction and early identification</td>
<td>E. Llurba (Spain)</td>
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<td>18:00</td>
<td>Fetal echocardiography predicts postnatal treatment strategy for the fetus with pulmonary atresia or severe pulmonary stenosis</td>
<td>L. Cao (China)</td>
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#### OP03: IOTA

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<td>GIRADS: a subjective approach to classifying ovarian masses</td>
<td>J.M. Alcázar (Spain)</td>
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<td>Classifying masses as benign, borderline, primary invasive and metastatic: the IOTA multiclass “ADNEX” prediction model</td>
<td>B. Van Calster (Belgium)</td>
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<td>17:25</td>
<td>Classifying ovarian masses using simple rules or the IOTA multiclass ADNEX model smartphone app: practical examples of how to use the app in the clinic</td>
<td>D. Timmerman (Belgium)</td>
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<td>17:45</td>
<td>The characteristic features of less common ovarian cysts: lessons from the “imaging in gynecology” series</td>
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Lower genital tract infection by HPV: correlation with HPV induced-trophoblastic dysfunction in late preterm birth
P. Bietron Hernandez (Spain)

Quantitative ultrasound texture analysis of fetal lungs to predict neonatal respiratory morbidity
E. Bonet-Carme (Spain)

OP03: First trimester screening of aneuploidies and pregnancy complications
Chairs: L. Poon (United Kingdom); E. Antolín (Spain)
A potential role of circulating LHCGR forms for the prediction of pre-eclampsia in the first trimester of pregnancy
P. Crovetti (Spain)

Initial experience of non-invasive prenatal testing with cell-free DNA: factors influencing fetal fraction
C. Comas (Spain)

Implementation of non-invasive prenatal testing (NIPT) for fetal aneuploidy in a general screening population in two European centres
B. Bermejo (Spain)

Estimation of aneuploidy detection rates based on nuchal translucency and non-invasive prenatal testing (NIPT): a cohort study
A. Khalil (United Kingdom)

Initial experience of non-invasive prenatal testing with cell-free DNA: comparison between Panorama™ and Harmony™
M. Eschevarria (Spain)

The efficacy of real-time nuchal translucency quality review using exponentially weighted moving average chart
M. Hyněk (Czech Republic)

CRL audit using sonologist-specific PAPP-A and hCG median MoMs plots
J. Sabria (Spain)

Usefulness of nasal bone, ductus venosus and tricuspid valve flow at intermediate risk in the screening for chromosomal abnormalities at 11–13 weeks of gestation
E. Gómez Montes (Spain)

A cost-effectiveness analysis of screening for Down’s syndrome in the first trimester: comparison of conventional strategies and non-invasive fetal trisomy test
M. Chen (China)

Prenatal diagnosis vs 1st trimester screening of Trisomy 21 among pregnant women aged 35 or more
F. Bellussi (Italy)

OP04: Characterising ovarian pathology
Chairs: L. Platt (United States); M. Pascual (Spain)
Comparison of the diagnostic performance of risk of malignancy indices in the preoperative assessment of adnexal tumors
N. Abràma (Poland)

Comparing two strategies for classifying adnexal masses using IOTA simple descriptors
J.M. Aldazcar (Spain)

Risk of malignancy of unilocular cyst
M. Carvalho Afonso (United Kingdom)

Prevalence of various ultrasonographic findings in cases of ovarian torsion
P. Stakdeevicius (Sweden)

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Unmasking the great impostor: genital tuberculosis
M. Grigore (Romania)

3D image analysis; involvement in the preoperative characterisation of ovarian masses as benign or malignant
S. Stavrakou (Greece)

Feasibility of the automation of clinical diagnostic model research
A. Installe (Belgium)

Ultrasound features of borderline ovarian tumors using the IOTA simple rules
A.D. Pedra (Indonesia)

OP05: CHD: early diagnosis and new imaging methods
Chairs: R. Chaoui (Germany); C. Comas (Spain)
Prenatal diagnosis of major aortopulmonary collateral arteries in a series of 17 fetuses with pulmonary atresia with ventricular septal defect
I. Sovere (Spain)

Prenatal prediction of coarctation of the aorta
S. Grinenco (Argentina)

Prenatal prediction of coarctation of aorta in fetuses with early onset cardiac asymmetry
E. Gómez Montes (Spain)

Prenatal prediction of coarctation of aorta in fetuses with late onset cardiac asymmetry
E. Gómez Montes (Spain)

Assessment of fetal arrhythmias by fetal colour tissue Doppler imaging (cTDI)
J. Steinhardt (Germany)

A new approach to the prenatal diagnosis of aortic coarctation: aortic arch anatomical characteristics which improve early recognition
V. Vang (Italy)

Antenatal cardiovascular MRI in the human fetus
M. Tavares de Souza (Germany)

First trimester diagnosis of fetal cardiovascular system anomalies Accuracy study for 2D and 4D ultrasound methods
S. Tudorache (Romania)

Congenital caput medusae: rare case of fetal high-output cardiac dysfunction
E. Sinkovskaya (United States)

OP06: The first trimester scan
Chairs: C.M. Bilardo (Netherlands); F. Audibert (Canada)
True Reproducibility of UltraSound Techniques (TRUST): late first trimester uterine artery pulsatility index using transabdominal and transvaginal ultrasound
W.P. Martins (Brazil)

Is the rate of pre-and postnatal karyotype aberrations in pregnancies conceived by assisted reproductive technology correlated to the type of treatment?
C.B. Wulff (Denmark)

Peak-to-peak automated measurement of nuchal translucency: comparison of reproducibility with manual measurement
O. Morel (France)

Outcome of pregnancy in chromosomally-normal fetuses with increased nuchal translucency
M. Adiego (Spain)

Pitfalls of first trimester (FT) anomaly scan
D.G. Iliescu (Romania)

Low-set ear in early fetuses with CRL 45-84mm detected by 3D ultrasound
R.K. Pooh (Japan)

Automated measurement of nuchal translucency by volume NTTM (3D ultrasound): improving quality of nuchal translucency measurements by two- and three-dimensional ultrasound
H. Lee (Republic of Korea)
**MONDAY SHORT ORAL PRESENTATIONS**

**OP - Monday 15 September 2014**

**Room 113**

**OP07: Ultrasound in labour at term**

- **Chairs:** K. Kalache (Germany); G.E. Chalouhi (France)

  **Reliability of a novel 3D ultrasound technique for the measurement of the subpubic angle at term of pregnancy**
  - A. Youssef (Italy)

  **Prediction of delivery mode using angle of progression, before onset of labour in nulliparous women at term**
  - H. Jin (Republic of Korea)

  **Assessment of the angle of progression before induction of labour: can it predict a successful induction?**
  - M. Gillor (Israel)

  **Evaluation of elastography of uterine cervix in predicting time interval from induction to delivery in women with a low bishop score**
  - L. Sommer (France)

  **Head progression distance during the first stage of labour as a predictor for delivery outcome**
  - U. Eritk (Israel)

  **Can ultrasound assessed fetal position predict Caesarean section in nulliparous women with prolonged first stage of labour?**
  - T. Egebea (Norway)

  **A model to predict vaginal delivery based on ultrasound and characteristics of the labour**
  - T.M. Egebea (Norway)

  **An image-scoring method for angle of progression in the second stage of labour**
  - T. Qabel (France)

  **Can the use of intrapartum ultrasound reduce the rate of failed instrumental deliveries?**
  - O. Barak (Israel)

  **Software-based on intrapartum sonography to predict the difficulty in vacuum-assisted delivery**
  - J. Sainz Bueno (Spain)

  **Prediction of postpartum hemorrhage measuring the largest ultrasonographic diameter of placenta at around 36 weeks of gestation**
  - Q. Thibaud (France)

**OP08: Assessment of fetal wellbeing**

- **Chairs:** A. Bhide (United Kingdom); R. Schild (Germany)

  **Fetal weight estimation at term is not influenced by maternal BMI and weight gain**
  - S. Vennucci (Italy)

  **Perinatal outcomes in fetal severe anemic syndrome treated by intrauterine transfusions**
  - N. Pavlova (Russian Federation)

  **Diagnosis of severe fetomaternal hemorrhage: personal experience and systematic review**
  - P. Bellussi (Italy)

  **Blood flows in pregnancies with isolated single umbilical artery (SUA): a prospective case control study**
  - E. Spiegel (Israel)

  **Predictive value of second and third trimester fetal renal artery Doppler in idiopathic oligohydramnios and polyhydramnios in low risk pregnancies**
  - A. Tazegül Pekin (Turkey)

**OP09: Ultrasound in oncology**

- **Chairs:** D. Fischerová (Czech Republic); J.M. Alcázar (Spain)

  **The diagnostic accuracy of ultrasound in assessment of myometrial and cervical invasion in endometrial cancer: subjective assessment vs. objective techniques**
  - F. Frähauf (Czech Republic)

  **Contrast enhanced ultrasound in breast tumors: use of Sonoliver CAP and application of parametric imaging**
  - J. Quan (China)

  **Factors affecting sonographic preoperative local staging of endometrial cancer**
  - D. Fischerová (Czech Republic)

  **Usefulness of transvaginal ultrasound in the preoperative evaluation of G1/G2 endometrioid endometrial cancer**
  - J.M. Alcázar (Spain)

  **The association of changes in cervical cancerechogenicity and vascularization with treatment effect of neoadjuvant chemotherapy**
  - A. Dückelmann (Germany)

  **Role of 3D ultrasound in the evaluation of the local extent of disease in advanced stage uterine cervical cancer**
  - J.M. Alcázar (Spain)

  **Demonstration of the neovascularisation patterns in 64 carcinomas of the cervix – comparison between 2D and 3D ultrasound examinations**
  - E. Merz (Germany)

  **Dynamic contrast-enhanced MR imaging of endometrial cancer: optimising the imaging delay for tumor-myometrium contrast**
  - M. Moos (Republic of Korea)

**OP10: Fetal cardiac function to assess fetal conditions**

- **Chairs:** H. Gardiner (United States); M. Herrera (Colombia)

  **Fetal longitudinal myocardial function between 11+0 and 15+6 weeks gestation**
  - E. Sinkovskaya (United States)

  **Myocardial color tissue Doppler imaging (cTDI) – assessment of isovolumetric time intervals in healthy fetuses**
  - A. Willuth (Germany)

  **Comparison of Simpson vs Teicholz methods for the evaluation of ejection fraction in the fetal heart**
  - M. Cruz-Lemini (Spain)
MONDAY SHORT ORAL PRESENTATIONS

**OP - Monday 15 September 2014**

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<td>First and second trimester combined screening for pre-eclampsia</td>
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<td>The uteroplacental and fetal circulations in normotensive pregnancies and those complicated by pre-eclampsia</td>
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**OP13: Advanced CNS assessment in normal and abnormal conditions**

**Room 113**

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<td>Anterior and posterior complex: new steps to improve antenatal detection of major cerebral anomalies</td>
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<td>V. Fernando (Chile)</td>
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<tr>
<td>Prenatal diagnosis of intracranial hemorrhage: report of a series of 17 cases</td>
<td>OP13.05</td>
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<td>M. Adiego (Spain)</td>
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<td>Fetal brain anomalies associated with intrauterine neuroinfection and fatal distress and their postnatal results</td>
<td>OP13.06</td>
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<td>I. Safonova (Ukraine)</td>
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<td>Association between isolated mild ventriculomegaly and fetal infections: a six-year experience</td>
<td>OP13.07</td>
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<td>G. Massini (Italy)</td>
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<td>Impact of ultrasound screening in timing of detection and prevalence of anencephaly in the Netherlands</td>
<td>OP13.08</td>
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<tr>
<td>H. Fleurke-Rozema (Netherlands)</td>
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<tr>
<td>A biparietal / transverse abdominal diameter (BPD/TAD) ratio ≤1: a potential hint for open spina bifida at 11-13 weeks scan</td>
<td>OP13.09</td>
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<tr>
<td>E.G. Simon (France)</td>
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<td>Prenatal neurological level in fetuses with myelomeningocele</td>
<td>OP13.10</td>
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<tr>
<td>A. Marchot (Spain)</td>
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</table>
OP - Monday 15 September 2014

OP14: Urogynecology  Room 112

Chairs: P. Barri-Soldevila (Spain); A. Youssef (Italy)

Can pelvic floor trauma be predicted antenatally?  OP14.01
J. Caudwell-Hall (Australia)

Morphological changes of the levator ani muscle during the first year postpartum after vaginal and Caesarean delivery  OP14.02
J. Stær-Jensen (Norway)

In vivo demonstration of sacrocolpopexy mesh course and vaginal displacement on magnetic resonance imaging  OP14.03
J. Deprest (Belgium)

Postpartum translabial 2D and 3D ultrasound measurements of the anal sphincter complex in women with obstetric anal sphincter injuries  OP14.04
H. P. Dietz (Australia)

Internal anal sphincter thickness as a predictor of obstructed defecation  OP14.05
H. P. Dietz (Australia)

The effect of replacing primary vacuum delivery with forceps  OP14.06
H. P. Dietz (Australia)

Correlation between the severity of symptoms of stress urinary incontinence and intravaginal ultrasoundography parameters of urethral mobility  OP14.07
X. Lin (Spain)

Sacrocolpopexy mesh implants: where is the sacral arm?  OP14.08
V. H. Eisenberg (Israel)

The utility of transperineal 2D ultrasound during OASIS follow-up  OP14.09
E. Martinez Franco (Spain)

Factors which predisposing lesions of levator ani muscle during vaginal delivery and assessment of the impact on the pelvic muscles by 3D-4D ultrasound  OP14.10
J. Garcia Mejido (Spain)

Transperineal 3D pelvic ultrasound in the assessment of voiding dysfunction following suburethral sling surgery  OP14.11
S. The (Australia)

Explore Barcelona with our Visitor’s Guide

Be sure to make the most of the ISUOG Visitor’s Guide to Barcelona, giving you a local view on where to go and what to see in your spare time, including our Local Organising Committee’s favourite restaurants and bars.

Access the guide online at isuog.org/worldcongress

Program - Tuesday 16 September 2014

07:30 - 08:10  Masterclass sessions

08:15 - 09:35  Impact of CHD on the fetal brain  Room 116 + 117
Abnormal bleeding  Room 112
Caesarean scars and other safety issues  Room 114 + 115

09:40 - 10:20  Diagnosis and management of CHD  Room 116 + 117
Abnormal bleeding  Room 112
Caesarean scars and other quality and safety issues  Room 114 + 115
Placental insufficiency  Room 120 + 121

10:45 - 12:05  Advanced CNS evaluation in high risk conditions  Room 116 + 117
Pelvic pain and endometriosis  Room 112
Cardiovascular risks in IUGR  Room 114 + 115

12:10 - 12:50  CNS: advanced assessment of the posterior fossa and corpus callosum  Room 116 + 117
Pelvic pain and endometriosis  Room 112
Diagnosis and management of growth restriction  Room 114 + 115
New imaging technologies: MRI and others  Room 120 + 121

13:10 - 14:10  Advanced imaging techniques for assessing fetal diseases  Room 116 + 117
Early pregnancy complications  Room 112
SGA or IUGR?  Room 114 + 115

15:40 - 16:20  New imaging technologies: ultrasound  Room 116 + 117
Early pregnancy complications  Room 112
Placental disease in IUGR and pre-eclampsia  Room 114 + 115
Heart defects and cardiac function  Room 113
Case reports: fetal anatomy  Room 120 + 121

16:45 - 18:10  Diagnosis and treatment of endometriosis  Room 116 + 117
Fetoscopic therapy  Room 112
Cardiac function  Room 114 + 115
Brain evaluation from clinical to research applications  Room 113
Outreach  Room 120 + 121
TUESDAY PROGRAM

07:30 - 08:10 Masterclass sessions

- Pearls in cardiac imaging
  A. Abuhamad (United States)
  Room 114 + 115

- Prevention of pre-eclampsia: going beyond aspirin
  A. Baschat (United States)
  Room 116 + 117

- How can 3D enhance the gynecological ultrasound investigation?
  B. Benacerraf (United States)
  Room 112

- The integrated approach to fetal growth restriction
  E. Gratacós (Spain)
  Room 113

08:15 - 09:35 Impact of CHD on the fetal brain

Chairs: S. Yagel (Israel); D. Pugash (Canada)

- LIVE SCAN: how to assess the impact of CHD on the fetal brain
  [industry supported]
  J.M. Martínez (Spain)
  Room 116 + 117

- Brain abnormalities and neurodevelopmental delay in congenital heart disease
  A. Khall (United Kingdom)
  Room 116 + 117

- Neurodevelopmental assessment in infants with major congenital heart disease before open-heart surgery
  N. Masoller; M. Sanz-Cortes; F. Crispi; O. Gómez; M. Benasar; J.M. Martínez; E. Gratacós (Spain)
  Room 116 + 117

- Discussion

- Mid-gestational ultrasound parameters for the prediction of cortical development and brain metabolism in term fetuses with congenital heart disease
  N. Masoller; M. Sanz-Cortes; F. Crispi; O. Gómez; M. Benasar; G. Egaña-Ugrinovic; N. Bargallo; J.M. Martínez; E. Gratacós (Spain)
  Room 116 + 117

- Discussion

- Brain sulcation and metabolism at term in fetuses with congenital heart defects classified according to the type of placental/systemic blood mix supplying the brain
  N. Masoller; M. Sanz-Cortes; F. Crispi; O. Gómez; M. Benasar; G. Egaña-Ugrinovic; N. Bargallo; J.M. Martínez; E. Gratacós (Spain)
  Room 116 + 117

- Discussion

- The impact of fetal growth on neurodevelopment in congenital heart disease
  I.A. Williams; W.P. Fifer; H. Andrews (United States)
  Room 116 + 117

- Discussion

- Head growth in newborns with prenatally diagnosed congenital heart defects
  S. Brun; J. Stinemann; M. Levy; L.J. Salomon; Y. Ville (France)
  Room 116 + 117

- Discussion

08:15 - 09:35 Abnormal bleeding

Chairs: S. Goldstein (United States); T. Van den Bosch (Belgium)

- Harmonising how we report myometrial pathology and findings we think are associated with fibroids and adenomyosis
  T. Van den Bosch (Belgium)
  Room 112

- Discussion

More information about ISUOG Outreach projects can be found at isuog/outreach
TUESDAY PROGRAM

Program - Tuesday 16 September 2014

08:39 Assessing abnormal bleeding in women on HRT and SERMS
S. Goldstein (United States)

08:59 Discussion

09:03 Intraoperative ultrasonography during laparoscopic myomectomy
OC13.01
S. Ferrero; U. Leone Roberti Maggiore; C. Scala; P.L. Venturini; V. Remorgida (Italy)

09:08 Discussion

09:11 Reproducibility of IETA terms in describing endometrial pathology
OC13.02
V. Chiappa; D. Giuliani; L. Ceppi; T. Grassi; A. Lissoni; R. Fruscio (Italy)

09:16 Discussion

09:19 Differences between proximal and distal endometrial echo thickness in postmenopausal women undergoing saline infusion sonohysterography [SIS]
OC13.03
O. Rotenberg; G. Doulaveris; J. Gebb; M. Renz; P. Dar (United States)

09:24 Discussion

09:27 Intra- and interobserver variability of ultrasound elastography for gynecologic pathology
OC13.04
B. Stoelinga; W. Hehenkamp; H. Brolmann; J. Huirne (Netherlands)

09:32 Discussion

08:15 - 09:35 Caesarean scars and other safety issues
Room 114 + 115

Chairs: K. Maršál (Sweden); C. Brezinka (Austria)

08:15 Prediction of adverse labour outcome by assessment of the Caesarean scar
L. Valentin (Sweden)

08:25 Video demonstration: prediction of adverse labour outcome by assessment of the Caesarean scar
N. Jastrow (Switzerland)

08:35 Maternal obesity as a potential source of error in ultrasound estimation of gestational age at around 12 weeks
OC14.01
G. Bak1; L. Sperling1; K.A. Salvesen1; K. Källér1; 1(Denmark); 2(Sweden)

08:40 Discussion

08:43 B-flow technique in the assessment of ductus venosus flow
OC14.02
M. Hynek; D. Smetanova; D. Stejskal (Czech Republic)

08:48 Discussion

08:51 Long-term effect of simulation-based training on clinical performance: a randomised trial
OC14.03
M.G. Tøsgaard1; E. Dreisler1; L. Nørgaard1; M. Madsen1; N. Freistilbø1; C. Ringsted1; A. Tabor1; 1(Denmark); 1(Canada)

08:56 Discussion

08:59 A systematic review on the diagnostic accuracy of sonography in the diagnosis of vasa previa
OC14.04
L. Rutter1; N. Kok1; J. Limpens1; J.B. Derks1; I.M. de Graaf1; B.J. Mo1; E. Pajkrt1; 1(Netherlands); 2(Australia)

09:04 Discussion

09:07 Longitudinal transvaginal ultrasound evaluation of the Caesarean scar thickness after single or double layer uterotomy closure
OC14.05
C. Bamberg; V. Bujak; E. Rodekamp; M. Brauer; L. Hinkson; K. Kalache; W. Henrich (Germany)

09:12 Discussion

09:15 The role of prior uterine closure on the lower uterine segment thickness measurement: a multicenter prospective study
OC14.06
C. Vachon Marceau1; N. Jastrow2; S. Roberge3; S. Demers4; N. Challet6; R. Gauthier7, 1(Canada); 2(Switzerland)

09:20 Discussion

09:23 Lower uterine segment thickness for prevention of uterine rupture and prediction of uterine scar dehiscence: a multicenter prospective study
OC14.07
N. Jastrow5; N. Challet6; S. Demers4; M. Girard4; R. Gauthier7, 1(Canada); 2(Switzerland); 3(Canada)

09:28 Discussion

09:40 - 10:20 Short oral presentation (OP) sessions

OP15: Diagnosis and management of CHD
Room 116 + 117
Chairs: J. S. Carvalho (United Kingdom); J. C. Fouron (Canada)

OP16: Abnormal bleeding
Room 112
Chairs: T. Van den Bosch (Belgium); A. Davison (United Kingdom)

OP17: Caesarean scars and other quality and safety issues
Room 114 + 115
Chairs: L. J. Salomon (France); G. Azumendi (Spain)

OP18: Placental insufficiency
Room 120 + 121
Chairs: S. Eik-Nes (Norway); D. Oros (Spain)

10:15 - 10:45 Coffee and e-poster viewing
Banquet hall

10:45 - 12:05 Advanced CNS evaluation in high risk conditions
Room 116 + 117
Chairs: D. Paladini (Italy); I. E. Timor-Tritsch (United States)

10:45 LIVE SCAN: advanced CNS evaluation [industry supported]*
K. Kalache (Germany)

11:05 Modification of human embryonic cerebellum size and growth trajectories by periconceptional folic acid use: the Rotterdam Predict Study
I. V. Koning; I. Groenenberg; A. Gotink; S. Willemse; M. Giltenbeek; J. Dudink; A. Go; I. Reiss; E. Steegers; R. P. Steegers-Thuinissen (Netherlands)

11:10 Discussion

11:13 Neurodevelopmental outcome in truly isolated fetal agenesis of corpus callosum
G. Pagan1; V. Gerosa; F. D’Antonio; M. Gregorini; P. Acors1; P. Martelli; M. Signorelli1 (Italy)

11:18 Discussion

11:21 Predicting symptomatic neonatal CMV infection in infected fetuses without brain anomalies at the time of prenatal diagnosis
J. Stirnemann; M. Leruez-Ville; Y. Ville (France)

11:26 Discussion

11:29 Periventricular pseudocysts and the germinal matrix: appearances, associations and neurodevelopmental outcome
D. Pugh1; C. Mayer; A. Lehman (Canada)

11:34 Discussion

*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.
* This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).
### Program - Tuesday 16 September 2014

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<td>Pelvic pain and endometriosis</td>
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<td>11:37</td>
<td>Significance of anterior horn dilatation at diagnosis in mild ventricular abnormalities</td>
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<td>11:45</td>
<td>The hippocampal commissure: a new finding at antenatal 3D ultrasound in fetuses with isolated complete callosal agenesis</td>
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<td>Take-home messages</td>
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<td>D. Paladini (Italy)</td>
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<td>11:58</td>
<td>Discussion</td>
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<td>12:05 - 12:45</td>
<td>Lunchtime satellite symposia**</td>
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<td>ISUOG takes no responsibility for scientific or clinical content. Please see page 134 for our satellite program.</td>
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Program - Tuesday 16 September 2014

13:15 - 14:00 Meet the Professor roundtable sessions Room 124 + 125

- M. Bebbington (United States)
- S. Camobbell (United Kingdom)
- J.S. Carvaho (United Kingdom)
- S. Eik-Nes (Norway)
- H. Gardiner (United States)
- A. Johnson (United States)
- C. Lees (United Kingdom)
- L. Platt (United States)
- D. Timmerman (Belgium)

14:15 - 15:35 Advanced imaging techniques for assessing fetal diseases Room 116 + 117

Chairs: D. Prayer (Austria); L.J. Salomon (France)

- LIVE SCAN: quantitative ultrasound using textural analysis [industry supported]
  M. Palacio (Spain)

- LIVE SCAN: cervical elastography [industry supported]
  E. Hernandez-Andrade (United States)

- Minimally invasive fetal autopsy using ultrasound: a feasibility study
  C. Votino1; B. Bessieres2; V. Segers; H. Kauthim; F. Razavi2; M. Condorelli; R. Votino; V. D’ambrosio; T. Cos1
  1(Belgium); 2(France)

- Measurement of pulmonary vascular volume using virtual reality three-dimensional ultrasound in fetus with an increased risk of chronic lung disease
  N. Peters; A. Egginke; A.H. Koning; D. Tibboel; E.A Steegers; T.E. Cohen-Overbeek (Netherlands)

- Functional and structural brain connectivity re-organisation assessed by MRI in neonates after intrauterine growth restriction
  E. Eixarch; D. Batalle; E. Muñoz-Moreno; E. Gratacós (Spain)

- Association between brain metabolism by MRI spectroscopy with corpus callosum development and cortical sulcation assessed by fetal MRI at term
  M. Sanz-Cortes; G. Egaña-Ugrinovic; C. Bazán-Arcos; C. Couve-Pérez; E. Gratacós (Spain)

14:15 - 15:35 Early pregnancy complications Room 112

Chairs: S. Goldstein (United States); M. Al-Memar (United Kingdom)

- Developing prediction models to classify PUL as low or high risk
  B. Van Calster (Belgium)

- Is there an optimal 48/0 hour hCG ratio cut-off to predict successful conservative management of tubal ectopic pregnancy? & OC19.02
  F. Infante (Australia)

- Decision-tree analysis incorporating hCG levels versus risk prediction model (M4): prospective interventional study in the management of PUL
  F. Infante; C. Lu; U. Menakaya; G. Condous
  1(Australia); 2(United Kingdom)

- Ultrastructural factors predicting a poor outcome in pregnancies between 8 and 10+6 week’s gestation
  C. Votino; M. Guizani; D. Gayraud; M. Condorelli; R. Votino; A. Votino; F. Gubana; T. Cos (Belgium)

*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

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Program - Tuesday 16 September 2014

14:41 Neurodevelopmental outcomes of near-term small-for-gestational-age infants with and without signs of placental underperfusion  
M. Parra-Saavedra, F. Crovetto, S. Triunfo, S. Savchev, A. Nadal, E. Gratacós, F. Figueras, Spain, Colombia

14:49 An integrated model with classification criteria to differentiate lateonset fetal growth restriction vs. small-for-gestational age  
F. Figueras, S. Savchev, S. Triunfo, E. Gratacós, Spain

14:54 Fetal cerebroplacental ratio is an independent predictor of intrapartum fetal compromise and neonatal unit admission  

15:02 Angiogenic factors versus Doppler evaluation in the third trimester for the identification of late-onset small-for-gestational age births  
S. Triunfo; M. Parra-Saavedra; F. Crovetto; V. Rodríguez-Sureda; C. Dominguez; E. Gratacós; F. Figueras, Spain, Italy, Colombia

15:10 Maternal cardiovascular changes in pregnancies complicated by small-for-gestational age neonate  
M. Morlando, B. Thilaganathan, E. Mantovani, E. Sheehan, A.T. Papageorghiou, A. Bhide, A. Khalil, UK

15:40 - 16:20 Short oral presentation (OP) sessions

OP23: New imaging technologies: ultrasound  
Chairs: L.J. Salomon (France), E. Hernandez-Andrade (United States)

OP24: Early pregnancy complications  
Chairs: G. Condous (Australia), S. Bobdiwala (United Kingdom)

OP25: Placental disease in IUGR and pre-eclampsia  
Chairs: M. Yamamoto (Chile), R. Brown (Canada)

OP26: Heart defects and cardiac function  
Chairs: J.S. Carvalho (United Kingdom), A. Galindo (Spain)

OP27: Case reports: fetal anatomy  
Chairs: B. Benoit (France), I.E. Timor-Tritsch (United States)

16:15 - 16:45 Coffee and e-poster viewing  
Banquet hall

16:45 - 18:05 Workshop: Diagnosis and treatment of endometriosis  
Chairs: G. Condous (Australia), J.M. Alcázar (Spain)

17:25 Deep infiltrating endometriosis: should we use bowel preparation or offset techniques?  
L. Savelli, Italy

17:45 The Leuven protocol for the assessment of deep infiltrating endometriosis  
D. Timmerman, Belgium

16:45 - 18:05 Workshop: Fetoscopic therapy  
Room 112

Chairs: J. Deprest (Belgium), E. Eixarch (Spain)

16:45 Introduction  
J. Deprest (Belgium)

16:50 Maternal safety and complications of fetoscopy  
E. Eixarch (Spain)

17:10 Discussion

17:15 Congenital diaphragmatic hernia: state of fetal therapy and current trials  
J. Deprest (Belgium)

17:35 Discussion

17:40 TTTS current debates: stage 1 and Salomon  
Y. Ville, France

18:00 Discussion

16:45 - 18:05 Workshop: Cardiac function  
Room 114 + 115

Chairs: H. Gardiner (United States), F. Crispi (Spain)

16:45 Current state of clinical applications in a fetal medicine setting  
F. Crispi (Spain)

17:05 Discussion

17:10 Current and future role in the assessment of congenital heart defects  
J. Rychik (United States)

17:30 Discussion

17:35 Brief overview of techniques and main limitations  
H. Gardiner (United States)

17:55 Discussion

18:00 Closing remarks  
H. Gardiner (United States)

16:45 - 18:05 Workshop: Brain evaluation from clinical to research applications  
Room 113

Chairs: D. Prayer (Austria), M. Sanz-Cortes (Spain)

16:45 Introduction  
D. Prayer (Austria)

16:50 Are there ways to assess reproducibly migration disorders early in pregnancy?  
D. Pugash, Canada

17:10 Discussion

17:15 Networks in the fetal brain visualised by MR methods  
D. Prayer (Austria)

17:35 Discussion

17:40 Brief overview of techniques and main limitations  
M. Sanz-Cortes (Spain)

18:00 Discussion

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Program - Tuesday 16 September 2014

OP - Tuesday 16 September 2014

OP:15 Diagnosis and management of CHD
Room 116 + 117

Chairs: J.S. Carvalho (United Kingdom); J.C. Fouron (Canada)

The impact of congenital heart disease on fetal growth
I.A. Williams (United States)

Myocardial damage in the fetus with complete atrioventricular block caused by maternal anti-SSA antibody
Y. Maeno (Japan)

Isolated aberrant right subclavian artery in low risk population: is it really a Trisomy 21 marker?
M. Bennasar (Spain)

Outcome of fetuses associated with aberrant right subclavian artery (ARSA)
E. Quarello (France)

Pericardial teratoma: diagnosis and management in the fetus
Z. Tian (United States)

Surgical approach for coarctation of the aorta repair: do we have prenatally anything to say?
E. Gomez Montes (Spain)

Isolated giant right atrium: prenatal diagnosis in four cases
L. Guirado (Spain)

Fetal echocardiography findings and outcomes in ectopia cordis; a case series
E.J. Lawrence (United States)

Abstract withdrawn
OP15.09

Accuracy of 4D-STIC fetal echocardiography at 11–14 weeks gestation
M. Bennasar (Spain)

OP16: Abnormal bleeding
Room 112

Chairs: T. Van den Bosch (Belgium); A. Davison (United Kingdom)

Reproducibility of 3D-transvaginal sonography by VCI analysis to differentiate endometrial polyp and hyperplasia in pre-menopausal women
F. Leone (Italy)

Ultrasound-guided percutaneous microwave ablation for symptomatic intramural fibroids: mid-term and long-term follow up in disease-specific symptoms and quality of life
J. Zhang (China)

The use of 3D power Doppler ultrasound in the quantification of blood vessels in uterine fibroids; feasibility and reproducibility
J. Niewerthuis (Netherlands)

User satisfaction with the Clinical Data Miner electronic data capture software
A. Installé (Belgium)

The accuracy of saline-infusion sonohysterography guided biopsy versus endometrial office biopsy in diagnosing endometrial pathology
F.A. Khan (Saudi Arabia)

The assessment of risk factors for expulsion of Levonorgestrel-releasing system Mirena with the use of three-dimensional transvaginal ultrasound
K. Tokhunts (Armenia)

Comparison of 3D/4D transvaginal ultrasound to 3D saline infused sonohysterography for evaluation of endometrial polyps
F. Astudillo-Davalos (United States)

Three-dimensional (3D) in vitro ultrasound examination in adenomyosis
T. Van den Bosch (Belgium)

OP16: Abnormal bleeding
Room 112

Chairs: T. Van den Bosch (Belgium); A. Davison (United Kingdom)

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T. Van den Bosch (Belgium)

OP17: Caesarean scars and other quality and safety issues
Room 114 + 115

Chairs: L.J. Salomon (France); G. Azumendi (Spain)

Disinfection of transvaginal ultrasound probes in a clinical setting; comparative performance of automated and manual reprocessing methods
M. Moellers (Germany)
OP - Tuesday 16 September 2014

Prevalence of pre-eclampsia according to zygosity and chorionicity in twin pregnancy

Chairs: S. Eik-Nes (Norway); D. Oros (Spain)

Assignment of gestational length based on last menstrual period, first trimester crown–rump length, ovulation and implantation timing

C. Lees (United Kingdom)

Profile of antenally-diagnosed congenital anomalies in the public sector of the Western Cape, South Africa: a prospective review

J.L. van der Merwe (South Africa)

Acoustic output measured by thermal and mechanical indices during fetal echocardiography at the time of first trimester scan are machine dependent

D. Nemescu (Romania)

True Reproducibility of UltraSound Techniques (TRUST): systematic review of reliability studies in obstetrics and gynecology

W.P. Martins (Brazil)

Intra- and inter-observer agreement in measurements of Caesarean scar defect and myometrial thickness with 3D ultrasonography

J. Glavind (Denmark)

Comparison of Caesarean hysterectomy scar of single-layer interrupted suture and double-layer interrupted suture by saline contrast sonohysterography

S. Kataoka (Japan)

Caesarean hysterectomy scar in non-pregnant women: reliability of transvaginal sonography with and without contrast enhancement

A. Baranov (Sweden)

Placenta previa after previous Caesarean section risk stratification: ultrasound versus MRI

J. Vojtech (Czech Republic)

Ultrasound (US) predictors of placental invasion: the placenta accreta index

D.M. Twickler (United States)

OP17: Placental insufficiency

Chairs: S. Eik-Nes (Norway); D. Oros (Spain)

Prevalence of pre-eclampsia according to zygosity and chorionicity in twin pregnancy

OP18.01

Y. Uhm (Republic of Korea)

Term pregnancies with increased resistance of uterine arteries: the risk of complications persist

I. Herranz (Spain)

Uterine artery Doppler and sFlt-1/PlGF ratio: usefulness in the prediction and diagnosis of pre-eclampsia in lupus pregnancies

I. Herranz (Spain)

Role or first trimester ultrasound in the prediction of stillbirth over 20 weeks

A. Sepulveda-Martinez (Chile)

Altered levels of brain neurotransmitters and brain microstructure in newborn rabbits with intrauterine growth restriction and brain vasodilatation

E.A. Hernandez-Andrade (United States)

Elevated red cell distribution width in the newborn is associated with intrauterine growth restriction and brain vasodilatation

C. Shari (United Kingdom)

Interleukin 16 in twin fetuses complicated by selective intrauterine growth restriction: a new marker of cardiovascular risk

E. Cosmi (Italy)

Sonographic umbilical cord morphology in patients with pre-eclampsia and intrauterine growth restriction in the second and third trimester

C.Y. Santhal (Turkey)

In vivo assessment of tissue-specific metabolic changes in the fetal rabbit brain associated with intrauterine growth restriction (IUGR)

R.V. Simoes (Spain)

Doppler parameters at routine third trimester ultrasound and subsequent fetal growth

M. Parra Saavedra (Spain)

OP18.02

F. Cripi (Spain)

Effect of postnatal diet on reverting cardiovascular remodelling in intrauterine growth restriction

OP18.03

M.J. Hatem (Syrian Arab Republic)

Neurodevelopmental outcome in isolated supratentorial intracranial cysts: a systematic review and meta-analysis

M.E. Albers (Netherlands)

US and MRI comparison for the diagnosis of corpus callosum anomalies: an eleventh year period retrospective study of 44 cases

O. Morel (France)

OP19: CNS: advanced assessment of the posterior fossa and corpus callosum

Chairs: D. Pugash (Canada); B. Puerto (Spain)

Fetal cerebellar damage in fetuses with severe anemia undergoing intrauterine transfusions

A. Curti (Italy)

3D Ultrasound and abnormalities of the vermis and posterior fossa

T. Palmieri (Italy)

Prenatal diagnosis and postnatal outcome of Blake pouch cyst: a prospective multicentre study

K. Yusupov (Russian Federation)

Posterior fossa anomalies on fetal neoneroscopy: accuracy of prenatal counselling on prognosis

M.E. Albers (Netherlands)

Perinatal and neonatal outcome of posterior fossa anomalies

M. Signorelli (Italy)

Outcome in isolated posterior fossa malformations: a systematic review and meta-analysis

F. D’Antonio (United Kingdom)

Oblique technique and corpus callosum

T. Palmieri (Italy)

Hypoplastic cavum with normal corpus callosum (CC): normal finding or CNS abnormality marker?

A. Robles Gourley (Spain)

Neurodevelopmental outcome in isolated supratentorial intracranial cysts: a systematic review and meta-analysis

F. D’Antonio (United Kingdom)

OP20: Pelvic pain and endometriosis

Chairs: G. Condous (Australia); B. Graupera (Spain)

Prenatal diagnosis and postnatal outcome of Blake pouch cyst: a prospective multicentre study

A. Curti (Italy)

Bladder endometriosis: sonographic features useful for surgical treatment

C. Exacoustos (Italy)

Is experience of sonographers sufficient to diagnose deep infiltrating endometriosis and bowel involvement by transvaginal ultrasonography?

A. Roselfort (France)

Three-dimensional ultrasonography and magnetic resonance imaging (MRI) in the diagnosis of deep endometriosis

S. Guerriero (Italy)

Changes in sonographic findings of adenomyosis after treatment with aromatase inhibitor

S. Menakaya (Australia)

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Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.01

U. Menakaya (Australia)

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M.J. Hatem (Syrian Arab Republic)

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M. Asiero Marinho (Spain)

OP19.03

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.04

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.05

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.06

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.07

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.08

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.09

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)

OP19.10

C. Exacoustos (Italy)

Using vaginal ultrasound in diagnosis of endometriosis

M.J. Hatem (Syrian Arab Republic)

A single centre experience with ultrasound-guided drainage of tubo-ovarian abscess

M. Asiero Marinho (Spain)
OP - Tuesday 16 September 2014

**OP21: Diagnosis and management of growth restriction**

*Room 114 + 115*

**Chairs:** C. Brezinka (Austria); B. Thilaganathan (United Kingdom)

- True Reproducibility of Ultrasound Techniques (TRUST): second trimester uterine artery pulsatility index using transabdominal and transvaginal ultrasound
  - W.P. Martins (Brazil)
- Fetal cardiovascular programming in growth restricted 6 month-old infants with and without catch-up growth
  - M. Cruz-Lemini (Spain)
- Prognostic factors and neonatal outcome in fetuses with late-onset growth restriction
  - L. Guariglia (Italy)
- Uniform pregnancy dating in the Netherlands: implementation of a national guideline
  - L.V. Leijten (Netherlands)
- Fetal weight formula can improve the sonographic detection of the SGA fetus: a mathematical model
  - M. Morgelli (Australia)
- Correlation between cord blood biomarkers of brain injury in IUGR and neonatal morbidity
  - M. Gomez-Roig (Spain)
- Cardiovascular changes in intrauterine growth restricted fetuses
  - E. Costi (Italy)
- CPR 2 as a new Doppler parameter for assessment of wellbeing in f etal growth restricted fetuses
  - A. Rossi (Italy)
- A proposal for a new Doppler parameter: the posterior cerebral artery-derived cerebroplacental ratio 3
  - A. Rossi (Italy)
- Neurosonographic assessment of the corpus callosum as a potential biomarker of abnormal neurodevelopment using fetal growth restriction as a model
  - M. Sanz-Cortes (Spain)
- Fatty acid intake in pregnant women with placental insufficiency
  - R.M. Nomura (Brazil)

**OP22: New imaging technologies: MRI and others**

*Room 120 + 121*

**Chairs:** D. Prayer (Austria); J. Bartha (Spain)

- Ex-vivo magnetic resonance angiography to explore placental vascular anatomy
  - O. Morel (France)
- Prenatal evaluating method of fetal lung maturity using lung-to-liver signal intensity ratio at magnetic resonance imaging (MRI)
  - Y. Oka (Japan)
- Fetal brain MRI: novel classification and contribution to sonography
  - E. Katorza (Israel)
- Low pulmonary blood flow demonstrated by Doppler and MRI in late onset IUGR
  - L. Sun (Canada)
- Preliminary hemodynamic reference ranges for the normal late gestation human fetus by phase contrast MRI and T2 mapping
  - L. Sun (Canada)
- Postmortem micro-computed tomography (micro-CT) of small fetuses and hearts
  - C.M. Lombardi (Italy)
- Cardiac fiber orientation and coronary changes in a rabbit model of IUGR using X-ray phase-contrast synchrotron radiation-based micro-CT
  - F. Crispi (Spain)
- Variability of hippocampal commissure in antenatal magnetic resonance imaging (MRI) in fetuses with isolated complete callosal agenesis
  - M. Nanni (Italy)

**OP23: New imaging technologies: ultrasound**

*Room 116 + 117*

**Chairs:** L.J. Salomon (France); E. Hernandez-Andrade (United States)

- Shear wave speeds for evaluating cervical ripening in pregnant women at term
  - H. Feltovich (United States)
- Levator ani changes depending on initial position and rotation of fetal head during vaginal delivery
  - L. Kroiga (Czech Republic)
- The effect of learning on the quality of cervical length measurements
  - M.A. van Os (Netherlands)
- Ergonomic assessment of 2D vs. 3D ultrasound for obstetric imaging using validated Strain Index (SI) and Rapid Upper Limb Assessment (RULA) analyses
  - M. Roy-Lacroix (Canada)
- Influence of pulse repetition frequency adjustment on three-dimensional power Doppler indices and STIC volumetric pulsatility index using an in vivo model
  - W.P. Martins (Brazil)
- Use of a high-frequency linear transabdominal transducer to evaluate small normal and abnormal structures in obstetrics
  - K.Y. Leung (Hong Kong)
- Impact of ultrasound system settings on three-dimensional power Doppler ultrasound (3dpd) vascular indexes measurements in secretory endometrium
  - D. Rodriguez Morante (Spain)
- Measurement of pulmonary fetal volume by 3D ultrasound (VOCAL) used as a predictor of lethality in fetuses with skeletal dysplasias
  - C. Amorim de Barros (Brazil)
- The effect of body mass index on predicting birth weight using the gestation adjusted prediction method
  - R.T. Overcash (United States)

**OP24: Early pregnancy complications**

*Room 122*

**Chairs:** G. Condous (Australia); S. Bodiwala (United Kingdom)

- Is there a correlation between morphology of tubal ectopic pregnancy, gestational age and hCG levels?
  - F. Infante (Australia)
- Are there any sonographic features associated with low serum progesterone in ongoing pregnancies?
  - J. Fuller (United Kingdom)
- Are early pregnancy complications more common in women with hyperemesis gravidarum?
  - S.R. Morgan (United Kingdom)
- The clinical significance of subchorionic hematoma without vaginal bleeding during the first trimester of pregnancy
  - T.Ahn (Republic of Korea)
- Ultrasound (US) findings of placenta accreta in the first trimester
  - E. Moschos (United States)
- Systemic methotrexate as an effective treatment for non-viable Caesarean section scar pregnancy
  - Y. Wah (Hong Kong)
### OP - Tuesday 16 September 2014

**TUESDAY SHORT ORAL PRESENTATIONS**

#### OP24: Placental disease in IUGR and pre-eclampsia

**Room 114 + 115**

**Chairs: M. Yamamoto (Chile); R. Brown (Canada)**

- Heparin added to aspirin for the prevention of pre-eclampsia: a systematic review and meta-analysis (Canada)
- Corpus callosum differences assessed by MRI in term small for gestational age fetuses and its association with neurobehaviour (Spain)
- Cord blood biomarkers of brain injury in IUGR and correlation with fetal-placental Doppler values (Spain)
- Computed tomography and Doppler in the prediction of myocardial damage in pregnancies with early onset placental insufficiency (Brazil)
- Angiogenic factors at diagnosis of late-onset small-for-gestational age and histological placental underperfusion (Spain)
- In utero restriction of pulsatility indices of the fetal vessels correlates with neonatal circulation measured with near-infrared spectroscopy (Netherlands)
- Correlation between placental underperfusion and perinatal morbidity in late-onset SGA (Spain)
- Rates of stillbirth and neonatal death secondary to IUGR over a 10-year period (Ireland)

#### OP25: Heart defects and cardiac function

**Room 113**

**Chairs: J.S. Carvalho (United Kingdom); A. Galindo (Spain)**

- Z-scores analysis of mitral-tricuspid valve distance in normal fetuses with fetal echocardiography (China)
- Myocardial performance index (MPI) for monitoring intrahepatic cholestasis of pregnancy (ICP) (Australia)
- Borderline left ventricle: (re) assessment from fetal to neonatal life (Austria)
- Maternal and fetal digoxin levels in the treatment of fetal supraventricular tachycardia (United States)

### OP - Tuesday 16 September 2014

**TUESDAY SHORT ORAL PRESENTATIONS**

#### OP26: Heart defects and cardiac function

**Room 113**

**Chairs: J.S. Carvalho (United Kingdom); A. Galindo (Spain)**

- Z-scores analysis of mitral-tricuspid valve distance in normal fetuses with fetal echocardiography (China)
- Myocardial performance index (MPI) for monitoring intrahepatic cholestasis of pregnancy (ICP) (Australia)
- Borderline left ventricle: (re) assessment from fetal to neonatal life (Austria)
- Maternal and fetal digoxin levels in the treatment of fetal supraventricular tachycardia (United States)

- Anogenital distance in male and female fetuses at 20 to 35 weeks gestation: centile charts and reference ranges (Israel)
- Association between peri-conceptional multiple nongenetic risk factors with congenital heart disease (China)
- Fetal and postnatal echocardiographic correlation in congenital heart disease: third level centre experience (Argentina)
- Echocardiographic accuracy and postnatal follow-up of congenital heart disease: third level centre experience (Italy)
- Comparison of first trimester to second trimester fetal heart examination in detection of cardiac anomalies in a tertiary fetal medicine teaching unit (Egypt)
- Perinatal changes in cardiac function: improvement from fetus to neonate (Unites Kingdom)

#### OP27: Case reports: fetal anatomy

**Room 120 + 121**

**Chairs: B. Benoit (France); I.E. Timor-Tritsch (United States)**

- Prenatal diagnosis of a lower intestinal fistula with subcutaneous meconium infiltration (France)
- Prenatal diagnosis of mature teratoma in an undescended testicle: two-, three-dimensional ultrasound and Doppler features (Italy)
- Prenatal diagnosis of MOPD type I caused by mutations in the RNU4ATAC gene: a case report (Netherlands)
- Novel "alkaline phosphatase-liver/bone/kidney (ALPL)" gene mutation identified in a case of hypophosphatasia (United States)
- In utero diagnosis of fibrodysplasia ossificans progressive (Canada)
- Newborn "alkaline phosphatase-liver/bone/kidney (ALPL)" gene mutation identified in a case of hypophosphatasia (United States)
- Intrauterine growth restriction and perinatal morbidity in late-onset SGA (Spain)
- Cord blood biomarkers of brain injury in IUGR and correlation with fetal-placental Doppler values (Spain)
- Computed tomography and Doppler in the prediction of myocardial damage in pregnancies with early onset placental insufficiency (Brazil)
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25th World Congress on Ultrasound in Obstetrics and Gynecology
Montréal, Canada, 11 – 14 October 2015

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1 April
Abstract submission and presenter registration deadline

11 August
Early bird deadline

11 October
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Program - Wednesday 17 September 2014

07:30 - 08:10
Masterclass sessions

08:15 - 09:35
Managing abnormalities in the second trimester Room 116 + 117
Reproductive medicine and IVF Room 112
Multiple pregnancy Room 114 + 115

09:40 - 10:20
Improving the accuracy of ultrasound for anomalies Room 116 + 117
Growth restriction in late pregnancy Room 112
Multiple pregnancy II Room 114 + 115
Reproductive medicine Room 120 + 121

10:45 - 12:05
Assessing normal and abnormal brain development Room 116 + 117
Menopause and screening Room 112
Fetal interventions Room 114 + 115

12:10 - 12:50
Fetal anomalies Room 112
Systematic reviews in gynecology Room 120 + 121
Fetal interventions Room 114 + 115
Chromosomal abnormalities: from borderline findings to invasive testing Room 116 + 117

13:10 - 14:10
Industry sponsored satellite symposium Room 116 + 117

13:15 - 14:00
Meet the Professor roundtable sessions Room 124 + 125

14:15 - 15:35
CNS: moving beyond the basics Room 113
Management of infertility and reproductive medicine Room 112
Diagnosis, management and early-onset IUGR: lessons from the TRUFFLE study Room 114 + 115

16:00 - 17:10
Closing session and awards Room 116 + 117

17:10 - 18:00
Congress leaving drinks Room 116 + 117

Organised by the International Society of Ultrasound in Obstetrics & Gynecology: The Society of Women’s Imaging.
E: congress@isuog.org T: +44 (0)20 7471 9955
**Program - Wednesday 17 September 2014**

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<th>Time</th>
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<td>Masterclass sessions</td>
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<td>07:30 - 08:10</td>
<td>Use of 3D volume for a better understanding of embryo development</td>
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<td>B. Benoit (France)</td>
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<td>Ultrasound in the postmenopausal woman</td>
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<td>Sonography of fetal malpositions in labour</td>
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<td>Managing abnormalities in the second trimester</td>
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<td>Chairs: C.M. Bilardo (Netherlands); G. Yeo (Singapore)</td>
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<td>08:15 - 09:35</td>
<td>LIVE SCAN: soft palate abnormalities [industry supported*]</td>
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<td>08:15 - 09:35</td>
<td>W. Sepulveda (Chile)</td>
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<td>08:15 - 09:35</td>
<td>Antenatal ultrasound prediction of postnatal renal function in congenital lower urinary tract obstruction</td>
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<td>08:15 - 09:35</td>
<td>F. Fontanella; M. Pace; L. Duin; V. Gracchi; E. Pajkrt; C.M. Bilardo (Netherlands)</td>
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<td>Anomalous umbilical venous drainage: pregnancy outcome</td>
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<td>08:15 - 09:35</td>
<td>M. Canavolo Alonso; R. Arisoy; A.T. Papageorgiou; A. Bhide; J.S. Carvalho; B. Thilaganathan (United Kingdom)</td>
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<td>Monitoring and when to deliver pregnancies with gastoschisis: a single-centre experience of 52 cases</td>
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<td>Prenatal diagnosis and long-term outcome of congenitally corrected transposition of great arteries</td>
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<td>A. Ruiz; C. Rood; G. Giralt; A. Silvia; E. Lurba; E. Carreras; Q. Ferrer (Spain)</td>
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<td>Outcome of talipes equinovarus diagnosed antenatally in non-selected cohort of 45,774 births: implications for antenatal counselling and referral</td>
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<td>Detection of submicroscopic chromosomal aberrations by array-based comparative genomic hybridisation in fetuses with congenital heart disease</td>
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<td>08:15 - 09:35</td>
<td>Late termination of pregnancy practice in two tertiary care centres in Flanders, Belgium</td>
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<td>N. Mathiaccioni; P. Ramekers; L. De Catte (Belgium)</td>
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<td>08:15 - 09:35</td>
<td>Discussion</td>
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*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

*This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).
WEDNESDAY PROGRAM

Program - Wednesday 17 September 2014

08:15 - 09:35 Reproductive medicine and IVF Room 112

- **Chairs:** S. Campbell (United Kingdom); N. Raine-Fenning (United Kingdom)
- 08:15 Endometrial scratching: does it work? Why does it work?
  *W. Martins (Brazil)*
- 08:35 Ultrasound endometrial pattern and endometrial gene expression at the time of embryo transfer in oocyte donation program
  *I. Aboujaoude1; D. Haouzy2; S. Hamamah2 (France)*
- 08:40 Discussion
- 08:43 Modified classification of previously considered arcuate uterus: normal, dysmorphic or septate uterus? Different impact on fertility?
  *I. Cobuzzi; V. Romeo; E. Valli; F. Baiocco; M. Romanini; E. Zupi; C. Exacoustos (Italy)*
- 08:48 Discussion
- 08:51 Intraoperative bidimensional and 4D transrectal ultrasoundography for hysteroscopic metroplasty
  *S. Ferrero; V. Ghirardi; N. Bizzarri; P. Venturini; V. Remorgida (Italy)*
- 08:56 Discussion
- 08:59 Impact of uterine contractility and elastography on pregnancy rate in intrauterine insemination
  *N. Swerkerow Blackland; F. Boitrelle; Q. Thibaud; H. Gronier; B. Wainer; A. Torre (France)*
- 09:04 Discussion
- 09:07 3DT VS hysterosalpingo-contrast-sonography with gel foam for assessing tubal patency and tubal sterilisation occlusion by Essure device
  *C. Exacoustos (Italy)*
- 09:12 Discussion
- 09:15 Fertility treatment outcomes following standard 2D ultrasound vs 3D automated follicle tracking (sonoAVC)
  *R. Nagar; K. Tenenbaum-Gavish; B. Fisch; I. Meizner; A. Ben-Haroush (Israel)*
- 09:20 Discussion
- 09:23 Do the different PCOS criteria predict pregnancy and neonatal outcome?
  *M. Kellmann; F. Günther; V. Schneider; H. Sereina; W.P. Martins*; N. Raine-Fenning*; P. Klantisch; (Austria); (Brazil); (United Kingdom)*
- 09:28 Discussion

08:15 - 09:35 Multiple pregnancy Room 114 + 115

- **Chairs:** Y. Ville (France); D. Oros (Spain)
- 08:15 Current state of prevention of prematurity in twins
  *A. Tabor (Denmark)*
- 08:35 Cervical pessary to prevent preterm birth in twin pregnancies with a short cervix: RCT (PECEP-twins)
  *M.M. Goya; C. Rodrigo; M. De la Calle; L. Praetor; C. Merced; E. Llurba; T. Higuera Sanz; B. Muñoz; M. Juan Clar; A. Serrano; E. Carreras (Spain)*
- 08:40 Discussion
- 08:43 Postnatal catch-up growth in discordant twins within 2 years according to the obstetric characteristics
  *S. Kim; J.H. Lee; C.W. Park; B.J. Kim; J.S. Park; J.K. Jun; B. Yoon (Republic of Korea)*
- 08:48 Discussion

Program - Wednesday 17 September 2014

08:51 - 10:20 Short oral presentation (OP) sessions Room 116 + 117

- **OP28:** Improving the accuracy of ultrasound for anomalies
  *Chairs: A. Ngau (Australia); K.Y. Leung (Hong Kong)*
  - 09:00 Growth restriction in late pregnancy
    *Chairs: A.T. Papageorghiou (United Kingdom); F. Figueras (Spain)*
  - 09:15 Multiple pregnancy II
    *Chairs: A. Johnson (United States); A. Goncé (Spain)*
  - 09:30 Reproductive medicine
    *Chairs: T. Van den Bosch (Belgium); N. Raine-Fenning (United Kingdom)*

10:15 - 10:45 Coffee and e-poster viewing Banquet hall

10:45 - 12:05 Assessing normal and abnormal brain development Room 116 + 117

- **OP31:** Reproductive medicine
  *Chairs: T. Van den Bosch (Belgium); N. Raine-Fenning (United Kingdom)*

10:45 - 12:05 Assessing normal and abnormal brain development Room 116 + 117

- **Chairs:** G. Pilu (Italy); G. Azumendi (Spain)
  - 10:45 LIVE SCAN: multiplanar neurosonography in practice [industry supported]
    *G. Pilu (Italy)*
  - 11:05 Prenatal sonographic/pathological correlation in the diagnosis of periventricular heterotopia
    *D. Pugash; C.P. Dunham; G. Henderson (Canada)*
  - 11:10 Discussion
  - 11:13 Automated image analysis to estimate gestational age between 18 and 34 weeks using a single 3D brain volume dataset
    *B. Kemp; A. Namurete; S. Kennedy; J.A. Noble; A.T. Papageorghiou (United Kingdom)*
  - 11:18 Discussion

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**Program - Wednesday 17 September 2014**

**10:45 - 12:05 Fetal interventions**

**Room 112**

**10:45**
Open fetal surgery for myelomeningocele: outcomes in a post-MOMs trial cohort

*OC26.01*

**Chairs:** K. Hecher (Germany); M. Bebbington (United States)

**10:50**

discussion

**10:53**
Right-sided congenital diaphragmatic hernia in a decade of fetal surgery

*OC26.02*

**Chairs:** S.A. Fletcher (United States)

**11:05**
Aortic isthmus and umbilical artery Doppler for the prediction of transfusion syndrome: room for improvement?

*OC26.03*

**Chairs:** S. Eschbach; L. Boons; A.M. Middeldorp; F. Leduc; F. Fuchs; R. Gendron; J.C. Fouron; F. Audibert (Canada)

**11:18**

discussion

**11:29**
Aortic isthmus and umbilical artery Doppler for the prediction of intrauterine fetal demise after laser photocoagulation in twin–twin transfusion syndrome

*OC26.05*

**Chairs:** A. Eerdekens; J. Ramirez; F. Claus; E. Gratacos; J. Deprest (Belgium); J. Deprest (Spain)

**11:21**
Single intrauterine fetal demise after laser therapy for twin–twin transfusion syndrome: room for improvement?

*OC26.04*

**Chairs:** H. Gardiner; A. Kovacevic; M. Mellander; G. Tulzer; M. Roughton; J. Degenhardt; C. Enzensberger; T. Kohl; A. Tenzer; R. Axt-Fliedner

**11:34**

discussion

**11:37**
Atrial ischaemia and umbilical artery Doppler for the prediction of intrauterine fetal demise after laser photocoagulation in twin–twin transfusion syndrome

*OC26.06*

**Chairs:** F. Leduc; F. Fuchs; R. Gendron; J.C. Fouron; F. Audibert (Canada)

**11:42**

discussion

**11:45**
Differential patterns of prenatal ipsilateral and contralateral lung growth in isolated left-sided congenital diaphragmatic hernia

*OC26.07*

**Chairs:** N. Phithakwatchara; A. Coleman; P. Burns; F. Lim; A. Shaaban

**11:50**

discussion

**11:53**
Clinical take-home messages

**K. Hecher (Germany)**

**12:10 - 12:50 Short oral presentation (OP) sessions**

**Room 112**

**OP32: Fetal anomalies**

**Chairs:** C. Brezinka (Austria); H. Muñoz (Chile)

**OP33: Systematic reviews in gynecology**

**Chairs:** W. Martins (Brazil); B. Van Calster (Belgium)

**OP34: Fetal interventions**

**Chairs:** K. Hecher (Germany); M. Bebbington (United States)

**OP35: Chromosomal abnormalities: from borderline findings to invasive testing**

**Chairs:** G. Yeo (Singapore); N. Maiz (Spain)
We are delighted to invite you to participate in ISUOG’s 25th World Congress on Ultrasound in Obstetrics and Gynecology in the dynamic city of Montréal.

12:45 - 14:15 Lunch and e-poster viewing
Banquet hall

13:00 - 14:00 Industry sponsored satellite symposium**
Room 116 + 117

13:15 - 14:00 Meet the Professor roundtable sessions
Room 124 + 125

14:15 - 15:35 Workshop: CNS: moving beyond the basics
Room 113

**Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

**Lunchtime satellite symposia are brought to you by our sponsors and are not part of the ISUOG CME program. ISUOG takes no responsibility for scientific or clinical content. Please see page 134 for our satellite program.
OP - Wednesday 17 September 2014

OP28: Improving the accuracy of ultrasound for anomalies

**Room 116 + 117**

**Chairs:** A. Ngu (Australia); K.Y. Leung (Hong Kong)

- Diagnostic accuracy of prenatal ultrasound in identifying small bowel atresia
  - F. d’Antonio (United Kingdom)
- Fetal ovarian cysts: the predictive role of ultrasound appearance for postnatal surgery
  - N. Pali (Italy)
- Comparison of the reliability of two fetal hydronephrosis grading system: The Society for Fetal Urology grading system versus Onen grading system
  - H. Lee (Republic of Korea)
- More than a gut feeling: sonographic prenatal diagnosis of imperforate anus in a high risk population
  - S. Perlman (Israel)
- 2D and 3D ultrasound imaging of the fetal normal and bifold uva
  - G. Liberty (Israel)
- Objective assessment of fetal micrognathia: a new role for the prefrontal space ratio
  - E. Contro (Italy)
- Prenatal diagnosis of intra-abdominal cystic lesions: accuracy of fetal ultrasonography
  - L.J. Salomon (France)
- Performance of prenatal diagnosis in esophageal atresia
  - L.J. Salomon (France)
- Volumetric ultrasound, the on-line added value
  - S. Tudorache (Romania)
- Routine third trimester ultrasound screening detection rate of congenital anomalies
  - D. Oro (Spain)
- The influence of methodology of counting malformations on the sensitivity of ultrasound examination
  - N. Vecsek (Croatia)

**OP29: Growth restriction in late pregnancy**

**Room 112**

**Chairs:** A.T. Papageorgiou (United Kingdom); F. Figueras (Spain)

- Small-for-gestational age screening at third trimester ultrasound: performances, obstetrical and neonatal outcomes
  - E. Perdriolle-Galet (France)
- Antenatal prediction of small-for-gestational age by customised fetal weight estimation
  - E. Perdriolle-Galet (France)
- Timing of delivery and neonatal outcome for small-for-gestational age fetuses
  - S. Visentin (Italy)
- Second trimester three-dimensional fetal fractional thigh volume as a predictor of fetal growth restriction
  - K. Mohan (India)
- Fetal arm fat: a better marker than thigh fat for nutritional status?
  - C.L. Knight (United Kingdom)
- The impact of introducing customised fetal growth charts on maternity services in a district general hospital (3000 deliveries/annum)
  - S. Cunningham (United Kingdom)
- Average fetal weekly weight gain: a novel measure of fetal growth velocity
  - M. Mongelli (Australia)
- Impact of cerebral redistribution on neurological outcomes in small-for-gestational age babies: a systematic review
  - S. Meher (United Kingdom)
- Umbilical and mid cerebral artery Doppler to predict adverse outcome in a cohort of fetuses with intrauterine growth restriction
  - P. Audibert (Canada)
- Fetal Doppler changes in pregnant women with influenza AH1N1 infection and reduced arterial partial pressure of oxygen (PAO2)
  - E.A. Hernandez-Andrade (United States)
- Can low-middle cerebral artery Dopplers predict adverse fetal outcomes?
  - F. Astudillo-Davalos (United States)

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**OP30: Multiple pregnancy II**

**Room 114 + 115**

**Chairs:** A. Johnson (United States); A. Goncè (Spain)

- Prenatal outcome in crown–rump length discordant twin pregnancies, a retrospective study
  - L.V. Leijden (Netherlands)
- Crown–rump length discordance and fetal structural abnormalities in twin pregnancies
  - A. Khalil Ellbore (United Kingdom)
- Second trimester ultrasound measures in prediction of birth weight discordance and SGA in dichorionic twins
  - L. Rode (Denmark)
- Cervical length measurement in twin pregnancies at 18–22 weeks: not the best test for all preterm births
  - A. Fichera (Italy)
- Can middle cerebral artery peak systolic velocity predict polyhydramnios in monochorionic diamniotic twins? Evidence from a longitudinal study
  - M. Fishel-Bartel (Israel)
- Prognostic value of gestational age at diagnosis in TTTS treated by fetoscopic coagulation of anastomoses
  - J. Strimnemann (France)
- Is there a role for planned vaginal delivery in monochorionic diamniotic twin pregnancies?
  - E. Breslin (United Kingdom)
- Neurophysiological development in twins at 48–60 months after the estimated date of delivery: comparison of progesterone and placebo treatment during second and third trimester of pregnancy
  - L. Rode (Denmark)
- Prenatal outcome after laser treatment for twin-twin transfusion syndrome in triplet pregnancies: a systematic review and meta-analysis
  - F. d’Antonio (United Kingdom)

**OP31: Reproductive medicine**

**Room 120 + 121**

**Chairs:** T. Van den Bosch (Belgium); N. Raine-Fenning (United Kingdom)

- Does morphology of uterine septum have an impact on reproductive outcome?
  - C. Evacoustos (Italy)
- 3D ultrasound novel geometric measures for normally appearing uterine cavity in nulliparous females in reproductive age
  - M.A. Abdel-Naby (Egypt)
- A comparison of two different balloon catheters for hysterosalpingo-foam sonography (HyFoSy)
  - D. Van Schoubroeck (Belgium)
- Use of 3D power Doppler ultrasound and VOCAL in the evaluation of endometrial vascularisation of infertile patients with implantation failure or recurrent miscarriage
  - A.L. Iglesias (Argentina)
- Accuracy of transvaginal three-dimensional ultrasound in diagnosis of congenital uterine anomalies
  - M. Liu (China)
- The impact of endometriosis on assisted reproduction outcomes: an observational study
  - C.O. Nastri (Brazil)
- A primary study on transvaginal real-time three-dimensional hysterosalpingo-contrast sonography in the assessment of tubal patency
  - Y. Qu (China)
- Endometrial thickness: an estimate of endometrial receptivity or just a reflection of ovarian response?
  - C.O. Nastri (Brazil)
- Clinical value of transvaginal real-time three-dimensional hysterosalpingo-contrast sonography in the evaluation of tubal patency
  - Y. Qu (China)
- Training of nurses of assisted reproduction units in 3D folliculometry
  - A. Rodriguez (Spain)
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**OP32: Fetal anomalies**

**Chairs:** C. Brezinka (Austria); H. Muñoz (Chile)

- Maternal psychological stress responses in pregnancy after ultrasonographic detection of a fetal malformation: a longitudinal study
  - A. Kaassen (Norway)
  - OP32.01
- Influence of prenatal diagnosis and place of birth on outcome for congenital diaphragmatic hernia in New South Wales
  - A.W. Walsh (Australia)
  - OP32.02
- Prenatal diagnosis of clubfoot: risk of association with other anomalies and postnatal outcome
  - C. Piatto (Italy)
  - OP32.03
- Outcome of umbilical vein varix (UVV)
  - A. Kennedy (United States)
  - OP32.04
- Standardised postnatal care in isolated congenital diaphragmatic hernia: prognostic factors and perinatal outcome
  - E. Antolin (Spain)
  - OP32.05
- The natural history of spontaneous chorioamnionic separation diagnosed after 17 weeks’ gestation
  - C. Bibbo (United States)
  - OP32.06
- Outcomes of congenital surgical anomalies: a population-based study on influence of prenatal diagnosis and place of birth in New South Wales
  - A.W. Walsh (Australia)
  - OP32.07
- Involvement of multicystic dysplastic kidney: does initial size matter?
  - S.M. Lee (Republic of Korea)
  - OP32.08
- Prenatal diagnosis of ductus venous agenesis: anatomical variants, associated anomalies and impact on the postnatal course
  - C. Berg (Germany)
  - OP32.09
- Infected screening and polyhydramnios: our experience on 342 cases
  - C. Gaini (Italy)
  - OP32.10
- Prognostic factors in pregnancies complicated with fetal gastrochisis
  - D. Nowakowska (Poland)
  - OP32.11

**OP33: Systematic reviews in gynecology**

**Chairs:** W. Martins (Brazil); B. Van Calster (Belgium)

- Overview: statistical strengths and weaknesses of systematic reviews and meta analysis
  - J. Kaijser (Belgium)
  - OP33.01
- Sonographic detection of a morbidly adherent placenta (MAP)
  - J.E. Timor-Tritsch (United States)
  - OP33.02
- Maternal psychological stress responses in pregnancy after ultrasonographic detection of a fatal malformation: a longitudinal study
  - A. Kaassen (Norway)
  - OP33.03
- Influence of prenatal diagnosis and place of birth on outcome for congenital diaphragmatic hernia in New South Wales
  - A.W. Walsh (Australia)
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  - OP33.11
- Infected screening and polyhydramnios: our experience on 342 cases
  - C. Gaini (Italy)
  - OP33.12
- Prognostic factors in pregnancies complicated with fetal gastrochisis
  - D. Nowakowska (Poland)
  - OP33.13

**OP34: Fetal interventions**

**Chairs:** Y. Ville (France); M. Bebbington (United States)

- Fetal aortic valvuloplasty: investigating institutional bias in multicenter contributions to studies
  - H. Gardiner (United States)
  - OP34.01
- Sonographically-proven Caesarean scar pregnancies (CSP) can result in a live offspring and morbidity adherent placenta (MAP)
  - J.E. Timor-Tritsch (United States)
  - OP34.02
- What do pregnant couples want? The preferences of pregnant couples at increased risk for Down’s syndrome who are offered a choice in prenatal diagnosis between the clinical outcomes of 5 Mb and 0.5 Mb whole genome SNP array analysis
  - J. Deprest (Belgium)
  - OP34.03
- Lung mass regression sequence after percutaneous intrafetal laser ablation of the feeding artery in fetuses with bronchopulmonary sequestration and hydrops
  - R. Cruz-Martinez (Mexico)
  - OP34.04
- Outcomes of 51 cases of twin reversed arterial perfusion sequence: a single centre experience
  - R. Sugibayashi (Japan)
  - OP34.05
- Development of survival rates after intrauterine laser therapy for severe twin-twin transfusion syndrome in a series of 851 consecutive cases
  - W. Dietl (Germany)
  - OP34.06
- The role of echocardiography in the intraoperative management of the fetus undergoing myelomeningocele repair
  - J. Ryckie (United States)
  - OP34.07
- Early results of a new fetoscopic technique for the correction of spina bifida beyond 26 weeks of gestation: can we move the upper limit for the surgery?
  - D.A. Pedreira (Brazil)
  - OP34.08
- Severe maternal complications after fetoscopic surgery
  - R. Yamamoto (Spain)
  - OP34.09
- Impact of fetal endoscopic tracheal occlusion for severe congenital diaphragmatic hernia in a developing country
  - R. Cruz-Martinez (Mexico)
  - OP34.10
- A controlled study on subsequent fertility, pregnancy and gynaecological outcomes after fetal surgery for isolated congenital diaphragmatic hernia (CDH)
  - J. Deprest (Belgium)
  - OP34.11

**OP35: Chromosomal abnormalities: from borderline findings to invasive testing**

**Chairs:** G. Yeo (Singapore); N. Maiz (Spain)

- Prenatal outcomes for fetal echogenic bowel both isolated and combined with soft markers: case series and literature review
  - D. Dutta (United Kingdom)
  - OP35.01
- Ultrasonographic fetal soft markers in a low-risk population: prevalence with trisomies and invasive tests
  - P. Lindgren (Sweden)
  - OP35.02
- Information, informational request, documentation and handling on soft markers in Sweden
  - C. Ingvoldstad (Sweden)
  - OP35.03
- Influence of first trimester screening on the prenatal detection of structural malformations in euploid fetuses
  - D. Dutta (United Kingdom)
  - OP35.04
- Isolated fetal mild pyelectasis ultrasound follow-up
  - A. Balu (Romania)
  - OP35.05
- Isolated idiopathic polyhydramnios: to karyotype or not?
  - M. Ben-Amit (Israel)
  - OP35.06
- Controlling umbilical artery Doppler findings in fetuses with Trisomy 21
  - A. Geipel (Germany)
  - OP35.07
- Risk of miscarriage following amniocentesis and chorionic villus sampling: a systematic review and meta-analysis
  - F. D’Antonio (United Kingdom)
  - OP35.08
- What do pregnant couples want? The preferences of pregnant couples at increased risk for Down’s syndrome who are offered a choice in prenatal diagnosis between the clinical outcomes of 5 Mb and 0.5 Mb whole genome SNP array analysis
  - M. Knappen (Netherlands)
  - OP35.09
- Array analysis in prenatally detected hypoplastic left heart syndrome and left outflow tract anomalies
  - A. Geipel (Germany)
  - OP35.10
- Prenatal ultrasound and diseases assessed by expanded carrier screening: incidence and summary of findings
  - G.A. Lazarev (United States)
  - OP35.11

**OP - Wednesday 17 September 2014**
Regional opportunities

ISUOG supports quality education in all regions of the world

Trainee program
ISUOG offers two years FREE online membership to trainees specialising in ultrasound for obstetrics and gynecology, offered in partnership with registering bodies or organisations. Currently we have 1594 registered from across 37 countries. Ask your national society / institution to sign up.

Ambassador program
ISUOG’s Ambassador program aims to support membership growth in key regions and to ensure that educational opportunities are available to professionals in all corners of the world.

Translated guidelines
Our recent practice guidelines are now available in Chinese and Spanish. More translations coming soon!

Approved course program
In 2014, ISUOG supported 37 approved courses in 26 countries across the world. These are independently organised education courses in ultrasound for obstetrics and gynecology meeting certain quality criteria and delivered by local speakers, to local audiences. ISUOG offers all Approved course organisers the option to access ISUOG membership for all non-ISUOG members to support sustained education in these regions.

Electronic posters at a glance

Electronic posters (P) are available for viewing throughout the Congress on the ISUOG On Demand terminals located in the ISUOG Lounge in the exhibition hall. You can also send questions or comments to authors using our integrated e-mail facility. Electronic posters are subject categorised in the following pages.

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- Revisit your favourite lectures or view missed sessions at your leisure.
Fetal anomalies: head and heart

Julene Carvalho (UK)
Gustavo Malinger (Israel)

23 - 24 January 2014
London, UK

Our annual Intensive Course on fetal anomalies is dedicated to fetal cardiology and the diagnosis of congenital CNS anomalies. At the end of the two day program delegates should have a broad understanding of the advanced assessment of craniofacial and cardiac anomalies as well as insight into more challenging diagnoses. The course focuses on interactive approaches to learning with pathological specimens of the fetal heart compared to ultrasound findings, interactive video quizzes, and different etiologies and diagnostic approaches presented through the discussion of difficult cases.

Discounts available for ISUOG members
CME credits will be available

Register online at isuog.org/events

Electronic poster stations

P01: First trimester screening and ultrasound
Fetuses with increased nuchal translucency ≥ 3.5 mm: what are the fetal outcomes?
T. Quibel (France)

Detection and outcome of ductus venosus agenesis cases in prenatal sequential screening
D.G. Iliescu (Romania)

Women and partners coming for a first trimester combined (CUB) test; why they choose it, how are they informed, knowledge about Down’s syndrome and their plans if Down’s syndrome is diagnosed
C. Ingvoldstad (Sweden)

When you see nothing at all: validity of multiplanar reconstruction of the retronasal triangle view in viable & non-viable dystrophic fetuses in late 1st and early 2nd trimester
J. Weichert (Germany)

Preliminary experience of non-invasive prenatal testing with cell-free DNA for aneuploidies in a clinical setting
C. Comas (Spain)

Fetal face in the first trimester: feasibility, reproducibility and normal ranges of the PNT, MNM, angle, PL-distance, PNT/NBL-ration and PFSR
C.M. Bilardo (Netherlands)

Fetal nuchal translucency at first trimester as a predictor of monogenic neuromuscular disease in high risk couples
J. Parra (Spain)

Risk factors associated to fetal loss after chorionic villus sampling
F. Bellussi (Italy)

Procedure related risks of chorionic villus sampling and amniocentesis in the Netherlands: a cohort study
C.M. Bilardo (Netherlands)

Effect of training on feasibility of early morphology evaluation at 11-13+6 weeks of gestation
M. Bellotti (Italy)

The distribution of nuchal translucency in unaffected pregnancies: a mixture model revisited
M. Hynek (Czech Republic)

Congenital absence of salivary glands in fetuses with Trisomy 21
M. Odeh (Israel)

Detection of single umbilical artery in first trimester ultrasound: its value as a marker of fetal malformation
Y. Nieto Jimenez (Spain)

A retrospective review of the performance of antenatal screening scans in detecting non-chromosomal abnormalities in singleton pregnancies
D.T. Tai (Singapore)

Ultrasonographic parameters for prediction of early miscarriage: the role of three-dimensional volume measurement
J.E. Kwon (Republic of Korea)

Non-invasive prenatal testing experience in a clinical laboratory: rate of aneuploidy in fetuses with an increased nuchal translucency of ≥3.5mm
L. Fosler (United States)

Role of laboratory markers and ultrasound parameters in prediction of preterm delivery
M. Bogavac (Serbia)

A decade of NT based clinical outcome of ultrasonographic fetal screening
R.N. Ergin (Turkey)

Pregnancy outcome with increased nuchal translucency in first trimester scan
D. Bendre (United Kingdom)

Genetic testing strategy for rapid and in depth prenatal diagnosis in high risk pregnancies: our experience
A. Veduta (Romania)
P02: First trimester: case series and reports

- Umbilical cord cysts in first trimester pregnancy
  - B. Roxana (Romania)
  - Does it affect previous experience in learning the sonographic determination of fetal gender in the first trimester?
  - M. Theodora (Greece)
- Aneuploidy and fetal anomalies: first trimester
  - M. Theodora (Greece)
- To screen fetal major abnormalities early by sequential planes NT ultrasound at 12+3-13+6 weeks
  - W. Song (China)
- Did the aneyploidies’ screening tests results have any impact on the decision of pregnant women to undergo amniocentesis after the age of 35 years old
  - M. Theodora (Greece)
- Experience with transcervical chorionic villus sampling in a single second level care hospital
  - L. Acin Vinyeta (Spain)
- Prenatal ultrasound diagnosis of Meckel-gruber syndrome in 11-13+6 gestational weeks
  - L. Wang (China)
- Transcervical chorionic villous sampling: experience in a private center in Spain
  - T. Illescas (Spain)
- Clinical implications of prenatal diagnosis of umbilical cord cysts
  - C. Martínez-Payo (Spain)
- Body stalk anomaly in monoamniotic twins at 9 weeks
  - L. Ples (Romania)
- Cause of fetal demise in first trimester parvovirus fetal infection: anemia or myocarditis?
  - S. Benedetti (France)
- Aneurysmatic umbilical vein: case report
  - R. S. Martins (Portugal)
- Iniencephaly: case report
  - R. S. Martins (Portugal)
- Prenatal diagnosis of Trisomy 21: we show a rare case of fetoplacental discrepancy
  - J. Christ (Germany)
- A variant case of 6p 24 deletion syndrome
  - R. N. Ergin (Turkey)
Electronical postes stations

Development of the fetal vermis: new biometry reference data and comparison of three diagnostic modalities: 3D, 2D ultrasound and magnetic resonance imaging
E. Katorza (Israel)
P03.16

Evaluation of enlarged intracranial translucency in the detection of Dandy-Walker syndrome with ultrasonographic scan during the first-trimester
X. Lin (China)
P03.17

P04: CNS II : case reports and reviews

Perinatal outcome of fetal supratentorial intracranial cysts: a systematic review and meta-analysis
A. Youssaf (Italy)
P04.01

Case report: cerebral venous angiomma presenting in utero as a unilateral periventricular hyperechogenic lesion
Z. Leibovitz (Israel)
P04.02

Case report: primary Möbius sequence – early prenatal diagnosis and neurosonographic findings of a rare congenital cranial disynnervation disorder
Z. Leibovitz (Israel)
P04.03

A case of prenatally-diagnosed fetal intracranial hemorrhagia secondary to maternal autoimmune thrombocytopenic purpura
M.S. Kutuk (Turkey)
P04.04

Cardiomegaly as a prompt in diagnosing vein of Galen malformation
S. Vallabhaneni (India)
P04.05

Congenital Rubella syndrome with periventricular leukomalacia and hydrocephalus associated with very good long term outcome
Y Bulbul Baytur (Turkey)
P04.06

A case of Dandy-Walker malformation in which measurement of the brain-vermis angle at the 14th week of gestation was useful for diagnosis
K. Ichizuka (Japan)
P04.07

Caridomegaly as a prompt in diagnosing vein of Galen malformation
S. Vallabhaneni (India)
P04.08

Prenatal diagnosis of a congenital gliosarcoma (spindle cell glioblastoma)
S. Tuburan (United States)
P04.09

Miller-Diker syndrome
P04.10

Preneatal diagnosis of tethered spinal cord associated with sacrococcygeal teratoma: a case report
T. M. Helfer (Brazil)
P04.11

Prenatal diagnosis and postnatal outcome of severe microcephaly associated to isolated lissencephaly
C.L. Drummond (Brazil)
P04.20

P05: CNS III

Is fetal motility affected by maternal accidents?
B. van der Knoop (Netherlands)
P05.01

Second trimester evaluation of fetal brain anatomy by three-dimensional ultrasound
E. Pavlova (Bulgaria)
P05.02

Prenatal diagnosis of neurologic clastic lesions: a retrospective study on a ten-year period
O. Morel (France)
P05.03

Ultrasound measurement of nasal bone length, nasal depression and fronto-nasal angle “fetal nasal bone profile” in normal pregnancy
M.A. Abdel-Naby (Egypt)
P05.04

Assessment of the antero-posterior dimensions of the fetal eye by 3D-MPR sonographic imaging in the in the axial trans-orbital plane
Z. Leibovitz (Israel)
P05.05

Brain stem/brain stem occipital bone ratio and four-lines view in fetal nuchal translucency images assessment in fetuses with open spina bifida
A. Luciano (Italy)
P05.06

Diagnostics of fetal central nervous system pathology in time of the first trimester prenatal screening by PMF algorithm
I. Teregulova (Russian Federation)
P05.07

Anencephaly before and after a law change in Brazil
T.M. Helfer (Brazil)
P05.08

Normal echography of fetal cerebral vessels using 3D/4D colour Doppler mapping
S. Vorodin (Russian Federation)
P05.09

Prenatal ultrasound assessment of Sylvian fissure between 18 and 28 weeks of gestation
O. Koslova (Russian Federation)
P05.10

Prenatal diagnosis of complete cerebellar agenesia
M. Medvedev (Russian Federation)
P05.11

Diagnosis of fetal structural abnormalities at the 11–14 week scan in a tertiary Fetal Medicine Unit
L.C. Bussamra (Brazil)
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Maximize your insight during Labor & Delivery

Supplement your skills with Voluson™ ultrasound imaging tool SonoL&D to help evaluate the labor progression. SonoL&D, based on 2D ultrasound, automatically measures the angle of fetal head as labor progresses – this objective, quantitative ultrasound data helps guide clinical decision-making as well as providing a report for objective documentation of labor progression. SonoL&D can play a valuable role in enhancing communication with patients and their families – fetal head progression can be displayed via animation that visually depicts the fetal movement through the pelvis, helping enhance understanding why clinical decisions are being made.

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<td>Illumina</td>
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<td>IQ Medical Ventures</td>
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<td>ISUOG Lounge</td>
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<td>Medaphor</td>
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<td>Schallware Ultrasound Simulator</td>
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<td>Sidra Medical and Research Centre</td>
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<td>Simbionix USA Corporation</td>
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<td>Toshiba</td>
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<td>Transmural Biotech</td>
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<td>Tristel</td>
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<td>Wisepress</td>
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</tbody>
</table>

**Exhibition floor plans**

[Image of exhibition floor plans with booth numbers and company locations]
Industry education program

**Room 122**
- **Sunday, 15 September**
  - 13:00 - 14:15: Harmony Prenatal
  - Test hosts 'All Things Chocolate' Dessert

- **Monday, 16 September**
  - 12:45 - 14:25: Visits to VolusonClub lounge & hospitality suite

- **Tuesday, 17 September**
  - 11:30 - 13:00: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: High frequency imaging
  - M. Ruma (USA)

**Room 111**
- **Sunday, 15 September**
  - 13:00 - 14:15: Harmony Prenatal
  - Test hosts 'All Things Chocolate' Dessert

- **Monday, 16 September**
  - 12:45 - 14:25: VolusonClub lounge & hospitality suite

**Room 113**
- **Monday, 16 September**
  - 10:15 - 10:45: Meet the Expert
  - K. Heling (Germany)
  - B. Benoit (France)
  - A. Abuhamad (USA)

**Room 128**
- **Monday, 16 September**
  - 12:50 - 14:25: Live Demo: High Definition tools for Fetal Morphology Assessment
  - J. Carvalho (UK)
  - A. Abuhamad (USA)

**Room 119**
- **Tuesday, 17 September**
  - 15:45 - 16:20: Morphological assessment in first trimester ultrasound screening
  - E. Quarello (France)

- **Room 118**
- **Tuesday, 17 September**
  - Activities by private invitation

Hospitality suites

**Room 123**
- **Tuesday, 17 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: High frequency imaging
  - M. Ruma (USA)

**Room 119**
- **Monday, 16 September**
  - 10:15 - 10:45: Assessment of fetal brain by using the automated measurement system
  - J. Weichert (Germany)
  - 16:15 - 16:45: [Chinese Session] Fetal: heart assessment including MPI and cases for CHD
  - E. Carreras (Spain); G. DeVore (USA)

**Room 118**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - J. Abramowicz (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - J. Abramowicz (USA)

**Room 117**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 108**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 109**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 107**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 106**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 105**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 104**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 103**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 102**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 101**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)

**Room 100**
- **Monday, 16 September**
  - 10:15 - 10:45: Patient Satisfaction with VISIQ
  - M. Ruma (USA)
  - 12:45 - 14:15: Live scanning
  - 16:15 - 16:45: xMATRIX in Obstetrics
  - M. Ruma (USA)
### Satellite symposia

<table>
<thead>
<tr>
<th>Room</th>
<th>Sunday 14 September</th>
<th>Monday 15 September</th>
<th>Tuesday 16 September</th>
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<tr>
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<td><strong>GE Healthcare</strong></td>
<td><strong>TOSHIBA</strong></td>
<td><strong>PHILIPS</strong></td>
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</tbody>
</table>

**116 + 117**

- Advances in the Technology and Application of Samsung Ultrasound
- W. Spittle
- Morphological assessment in first trimester ultrasound screening
  - E. Quarello (France)
- When US meets 5D:
  - Fetal long bone and brain
  - J.Y. Kwon (Korea)
- Fetal echocardiography: complexity made simple
  - TBA

- Diagnostic Precision for Anatomy and Function
  - C.M. Bilardo (Netherlands)
  - Updates on the First Trimester Scan
  - J. Cruz (Portugal)
  - Fetal Cardiology: Assessment of Myocardial Function by Tissue Doppler Techniques and 2D Speckle Tracking
  - R. Axt-Fliedner (Germany)
  - The Impact of Advanced Ultrasound in Gynaecology - Introduction to the Concept of Ultrasound Hysteroscopy
  - B. Smith (UK)

- Providing you the diagnostic answers you need through Philips Innovation
  - Fusion Imaging for Fetal Intervention
  - W. Lee (USA)
  - Intergrowth 21st Study or High Frequency Imaging
  - M. Krapp (Germany)

- Innovative Ways to Address the Technically Difficult Patient
  - K. Kalache (Germany)

### Industry live scan acknowledgements

ISUOG gratefully acknowledges the following industry support for our live scan sessions.*

**Sunday**
- 14:25 Assessing the bony structures

**Monday**
- 10:45 First trimester echocardiography
- 16:45 Live scan of the pelvic floor

**Tuesday**
- 08:15 Systematic assessment of the heart using ISUOG guidelines
- 14:15 Cervical elastography

**Wednesday**
- 08:15 How to assess the impact of CHD on the fetal brain
- 16:45 Evaluating pelvic mobility: "the sliding sign"

**Thursday**
- 08:15 Soft palate abnormalities

**Supported by an unrestricted educational grant from:**

- **illumina**

**Live scans supported by:**

**PHILIPS**

**Saturday**
- 08:30 - 16:45 Ultrasound in the assessment of gynecological cancer

**Sunday**
- 13:00 - 14:10

**Monday**
- 10:45

**Tuesday**
- 16:45

**Wednesday**
- 14:15

*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.
EXHIBITOR PROFILES

Alpinion Medical Systems
7FL, Verdi Tower, 72-Digital-ro 26-gil, Guro-gu., Seoul 152-648, Korea
T: +82 2 282 0953
F: +82 2 851 5591
C: Jinny Kim
E: international@alpinion.com
W: www.alpinion.com
Established in 2007, ALPINION has been dedicated to technological and consumer-led innovation in medical transducer, diagnostic ultrasound and therapeutic ultrasound (US-guided HIFU).
With its focus on acoustic engineering superiority that is unmatched in the medical imaging industry, ALPINION provides customers with uniform and fundamentally excellent imaging performance throughout the whole product life time. Currently, ALPINION products are exported to 80 countries across the globe.

Ariosa Diagnostics
5945 Optical Court, California, 95116 USA
T: 01-926-854-8246
F: 01-408-229-7101
C: Sabah Onay
E: ClientServices@ariosadx.com
W: www.harmonystest.com
Ariosa Diagnostics, is a molecular diagnostics company committed to innovating together to improve patient care. The flagship product, the Harmony Prenatal Test, is a safe, highly accurate and affordable prenatal test for maternal and fetal health. Ariosa is using its proprietary technology to perform a directed analysis of cell-free DNA in blood. The Harmony test equips pregnant women and their healthcare providers with reliable information to make decisions regarding their health, without creating unnecessary stress or anxiety.

astraia software gmbh
Occam str. 20, 80802, Munich, Germany
T: + 49 89 127 11470
F: +49 89 127 1147-17
C: Roland Denk
E: sales@astraia.com
W: https://www.astraia.com/en/
astraia is a market leader and pioneer in obstetric and gynaecological database applications. Founded in 2000, its headquarters are in Munich, Germany, with a dedicated team of 30 employees as well as local sales partners, supporting more than 1,000 customers worldwide. 
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astraia has been translated into more than 25 languages and is available in several regional configurations.

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Robert Koch Str. 50, Mainz D-55129, Germany
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C: Jamie Stuart
E: Jamie.stuart@cae.com
W: www.caehealthcare.com
CAE Healthcare delivers leading-edge simulation training solutions to hospitals, physicians, nurses, students, emergency responders and the military around the world. Each product is developed in partnership with clinicians and clinical educators whose aim is to ensure physiological accuracy and educational relevance. 
Visit the CAE Healthcare booth to learn about our advanced imaging simulators and phantoms designed to increase competence in diagnostic and interventional ultrasound skills.

ContextVision
Kungsgatan 50, 11335 Stockholm, Sweden
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F: +46 8750 5494
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E: info@contextvision.se
W: www.contextvision.se
Since 1983, ContextVision has been a leading provider of image enhancement software to the global medical imaging industry, with the versatile GOP® technology at the core of all our imaging solutions. We play a key role in helping manufacturers by offering clinicians unparalleled diagnostic image quality, ultimately providing patients with better care. ContextVision continues to offer the latest software and expertise within ultrasound, x-ray, magnetic resonance imaging, mammography, fluoroscopy and computed tomography. Our groundbreaking technology and lengthy expertise have granted us a pioneer position within 2D/3D/4D image enhancement across multiple modalities.

Cook Medical
18 Rampayne St, London, SW1V 2TQ, United Kingdom
T: +44 203031081728
C: David Dostal
E: info@fetview.com
W: www.CookMedical.com
Cook Medical Reproductive Health provides physicians with a comprehensive offering of medical devices for the reproductive system. Cook Medical is committed to education, research, and collaboration with physicians to enhance patient care for women and men throughout their reproductive lives, from diagnosis to post-delivery.

Esaote
Via de Caciolle 15, 50127 Florence, Italy
T: +3905542291
C: Anouk Pluijmenekers
E: info@esaeote.com
W: www.esaote.com
Esaote, the Europe-based Ultrasound Manufacturer is internationally recognized as one of the “Top Ten” world’s leading diagnostic imaging companies. Esaote is dedicated to constantly developing significant new diagnostic capabilities for the modern women’s healthcare professional.
Come to the Esaote stand (28) to meet our complete product line-up, which provides 4D imaging on top of portability and many others solutions to meet your expectations.

FetView
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T: +44 203031081728
C: David Dostal
E: info@fetview.com
W: www.FetView.com
FetView is a modern online software solution for interpreting and documenting pregnancy and gynecology ultrasound examinations, offering the possibility to share results with patients and colleagues via their separate online accounts. FetView transfers images and measurements from ultrasound devices and allows for the creation of professional reports perfectly tailored to the needs of each specialist.
Discover ARIETTA at booth 29 and join our live demo sessions in hospitality room 128.

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

Illumina is a leading developer and manufacturer of life science tools and integrated systems for the analysis of genetic variation and function. Illumina’s Reproductive and Genetic Health solutions use next-generation sequencing (NGS) technology and advanced microarrays to generate comprehensive, accurate genomic information to assist healthcare providers and patients in making informed decisions for their reproductive health and well-being. Our technology accelerates genetic analysis research and its application, paving the way for molecular medicine and ultimately transforming healthcare.

IQ Medical Ventures is a medical device revolving incubator company. We develop bright ideas from physicians into simple products for the daily practice. We strive to make life easier for both the patient and the physician. IQ Medical Ventures markets two products in the field of gynecological ultrasound imaging (hysterosalpingo foam sonography and gel instillation sonohysterography). The basis for these two products is ExEm® gel.
Karl Storz GmbH & Co. KG
Booth no: 1
Mittelstrasse 8, 78532, Tuttlingen, Germany
T: +49 7461 708 8746
F: +49 7461 708 377
C: Yannik Weber
E: Yannik.Weber@Karlstorz.com
W: www.karlstorz.com

KARL STORZ is a renowned manufacturer that is well established in all fields of endoscopy. The still family held company has grown to one with a worldwide presence and 6700 employees. KARL STORZ offers a range of both rigid and flexible endoscopes for a broad variety of applications.

Medaphor
Booth no: 35
Suite 4, Cardiff Medicentre, Heath Park, Cardiff, CF14 4UJ, UK
T: +44 2920 756 534
F: +44 2920 750 239
C: Iain Dunbar
E: iain.dunbar@medaphor.com
W: www.medaphor.com

Medaphor is a global ultrasound training company, selling the award winning ScanTrainer ultrasound training simulator. The virtual reality simulator combines ‘real-feel’ haptic simulation with real patient scans and curriculum-based interactive learning to provide fast and effective 24/7 ultrasound training in a non-clinical environment. ScanTrainer’s unique Scantutor learning software takes simulation based-ultrasound learning to a new level by replicating the Gold Standard training practice of one-on-one expert tuition.

Mides Healthcare Technology GmbH
Booth no: 14
Weinholdstrasse 33, 8010 GRAZ
T: +43 (0) 316 426500
F: +43 (0) 316 426500 (ext. 3)
C: Dr Hannes Flesser
E: eprs@mides.com
W: www.mides.com

MIDES, the leading European service provider for medical ultrasound systems, has become, by establishing its own high-tech research lab, the specialist for the repair of ultrasound Probes, Standard and TEE (Transesophageal Echocardiography) Probes*. The company’s goal is to expand the market presence in the area of Probe repair across Europe.

*MIDES is certified according to ISO9001 and ISO13485

Mindray
Booth no: 19
Mindray Building, Keji 12th Road South, Hight-tech Industrial Park, Nanshan, Shenzhen 518057, PR China
T: +86 0755 81888998
F: +86 0755 26582500
C: Shane Chu
E: intl-uis@mindray.com
W: www.mindray.com

Mindray’s ultrasound solutions span the entire range from B/W hand-held ultrasound devices to portable and cart-based colour Doppler systems. Global ultrasound R&D platform which is led by the Seattle Ultrasound R&D centre allows Mindray to quickly develop products most needed by obstetricians and gynaecologists.

Cutting edge technologies such as the patented 3T Transducer Technology, iLive and MedSight enable Mindray ultrasound solutions to create a name for them within the premium-level ultrasound segment.
PerkinElmer
Mustainkatu 6, 20750 Turku, Finland
T: +358 2 2678 111
C: Tarja Ahola
E: tarja.ahola@perkinelmer.com
W: www.perkinelmer.com/ObstetricsGynaecology

PerkinElmer is a global company focused on improving the health and safety of people and their environment.
The company supplies instruments, test kits and risk calculation software to screen for pregnancy abnormalities.
As a pioneer in methods for prediction of pre-ecampsia, PerkinElmer offers a growing portfolio of innovative products based on the PIGF serum marker.
PIGF also has value as a Down syndrome marker. Various other 1st and 2nd trimester aneuploidy markers are reliably detected by PerkinElmer serum or dried blood spot screening assays. In addition, the Prenatal BoBs™ product allows molecular karyotyping.

Philips Healthcare, Ultrasound
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W: www.medical.philips.com

Philips is advancing the capabilities of ultrasound across a growing spectrum of clinical applications and making it available to more people around the world.
We accomplish this by developing innovative systems and tools that meet the needs of our customers:
• Optimal image quality for confident diagnosis
• Advanced features for greater efficiency
• Smart design, intuitive functionality
• Reliability and customer service
We will feature experts demonstrating clinical solutions using our portfolio of products throughout the week. Please join us to experience Philips innovation for yourself.

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W: www.laboratories.sequenom.com

Better results. Born of better science. Sequenom Laboratories, a wholly owned subsidiary of Sequenom, Inc., is a molecular diagnostics laboratory dedicated to improving patient care by offering laboratory-developed tests for prenatal conditions. We introduced the first of its kind noninvasive prenatal testing (NIPT) for pregnant women at increased risk for fetal chromosomal abnormalities with the MaterniT21™ PLUS test, and have since expanded the test to include the Enhanced Sequencing Series with select microdeletions. We now offer the VisibiliT™ prenatal test.

OsCare Medical
Äyritie 22, FI-01510 Vantaa, Finland
T: +358 40 732 4904
C: Mervi Turunen
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W: www.oscaremedical.com

OsCare Medical markets a small, easy to use ultrasound based device for bone health assessment. The device enables effortless and reliable screening for osteoporosis, a major health concern. The measurement is performed on the wrist.
The device uses low frequency (200 kHz) ultrasound that travels deep in the bone cortex, and houses several ultrasonic heads and an operational logic, that provide good correlation with cortical thickness, mineral density and elasticity of the bone.
Sidra Medical and Research Centre
Al Nasr Tower Al Coriche, PO BOX 26999, Doha, Qatar
T: +974 4404 2333
C: Hamda Zain Al Abdeen
E: hamda@sidra.org
W: www.sidra.org
Sidra Medical and Research Center is a groundbreaking hospital, research and education institution, in Doha, Qatar, that will focus on the health and wellbeing of women and children regionally and globally. Sidra will be a fully digital facility, incorporating the most advanced information technology applications in clinical, research and business functions. Sidra will initially have around 400 beds with infrastructure to enable expansion to 550 beds in a subsequent phase.

Siemens Healthcare
Healthcare Sector, HCC 412 Kerstin Eyrich, Henkestraße 127, 91052 Erlangen Germany
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F: Roland Koenig
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W: www.siemens.com/healthcare
The Siemens Healthcare Sector is one of the world’s largest suppliers to the healthcare industry and a trendsetter in medical imaging, laboratory diagnostics, medical information technology and hearing aids. Siemens offers its customers products and solutions for the entire range of patient care from a single. By optimizing clinical workflows for the most common diseases, Siemens also makes healthcare faster, better and more cost-effective.

SonoScape
10/F, Yizhe Building, Yuquan Road, Shenzhen, 518051, China
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F: +86 755 2652 6612
C: Victoria Qiu
E: Victoria.qiu@sonsoescape.net
W: www.sonsoescape.com
Since its establishment, SonoScape has been committed to providing high quality medical equipment for the healthcare sector. SonoScape specializes in the development and production of diagnostic ultrasound solutions. By introducing advanced imaging techniques, SonoScape has improved diagnostic accuracy, therefore enabled better health outcomes. Since 2002, SonoScape has reached and benefited millions of people. With the world in mind, SonoScape will continue providing more effective and accessible healthcare solutions, through persistent innovation and passion for life.
Toshiba Medical Systems  
**Booth no: 21**

Toshiba Medical Systems offers a full range of diagnostic imaging products and is a reliable service partner in more than 110 countries. In accordance with our Made for Life™ commitment, we will continue to develop innovations that improve patient care and provide lasting quality for a lifetime of value.

**Zilverstraat 1, 2718 RP Zoetermeer, Netherlands**
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F: +31793689444
C: 
E: Jeroen.Uijttenhout@toshiba-medical.eu
W: www.toshiba-medical.eu

For over 130 years Toshiba’s research and development has improved the health and welfare of people around the world. Today, Toshiba Medical Systems offers a full range of diagnostic imaging products and is a reliable service partner in more than 110 countries. In accordance with our Made for Life™ commitment, we will continue to develop innovations that improve patient care and provide lasting quality for a lifetime of value.

**Transmural Biotech S.L  
Booth no: 27**

Transmural Biotech is dedicated to develop innovative products and services specialized in the image analysis technologies. Our product, quantusFLM, is the FIRST 100% non-invasive fetal lung maturity test in the market. It is a test based on the analysis of the ultrasound image of the fetal lungs. quantusFLM is able to deliver reliable results in less than 10 minutes. Visit stand 27 or www.quantusflm.com for a demo or more information.

**Sabino Arana 38, 1º 1ª 08028 Barcelona, Spain**
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C: Albert Roc Viñas
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W: www.transmuralbiotech.com

Transmural Biotech is dedicated to develop innovative products and services specialized in the image analysis technologies. Our product, quantusFLM, is the FIRST 100% non-invasive fetal lung maturity test in the market. It is a test based on the analysis of the ultrasound image of the fetal lungs. quantusFLM is able to deliver reliable results in less than 10 minutes. Visit stand 27 or www.quantusflm.com for a demo or more information.

**Tristel Solutions Limited  
Booth no: 18**

Tristel is a global manufacturer of unique infection control solutions. Our patented Chlorine dioxide chemistry is at the core of our business and incorporated into products such as the globally recognised Tristel Wipes System and Duo for Ultrasound. Both products are renowned for their speed, efficacy, compatibility and safety. Visit stand 18 for a product demo and more information.

**Lynx Business Park, Fordham Road, Snailwell, Cambridgeshire, CB8 7NY**
T: +44 (0) 1638 721500
F: +44 (0) 1638 721911
C: 
E: mail@tristel.com
W: www.tristel.com

Tristel is a global manufacturer of unique infection control solutions. Our patented Chlorine dioxide chemistry is at the core of our business and incorporated into products such as the globally recognised Tristel Wipes System and Duo for Ultrasound. Both products are renowned for their speed, efficacy, compatibility and safety. Visit stand 18 for a product demo and more information.

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Turn to our membership guide on page 9 or speak to the team at the ISUOG Lounge.

Upgrade your ISUOG membership to receive the journal at reduced prices
At the Congress, upgrade at the registration desk during its designated opening times. There are two upgrade options; upgrade to online to access the journal online and via the new app, or upgrade to full to also receive print copies of the journal every month.

Learn about submitting a research paper to UOG
If you have new research to share and submit for publication in Ultrasound in Obstetrics and Gynecology, the Editorial team can be found at the ISUOG Lounge and would be happy to answer your questions.

Exercise your voting rights as an ISUOG member
Attend the AGM on Sunday 14 September from 12.10 – 12.50 in the Auditorium.

Send a special video message to your fellow members
Visit the ISUOG Lounge to record your message about what ISUOG means to you and to wish your fellow members a very happy birthday, ahead of our 25th birthday celebrations in 2015.

Find out about ISUOG events and opportunities near you
Did you know ISUOG runs around 40 approved courses each year? In 2014 these courses have already reached 26 countries. Come and see the team at the ISUOG Lounge to find out what activities are happening around the world and near you or to apply to approve your own high quality program.

Find an ISUOG ambassador from your country or region
ISUOG’s new regional ambassadors are listed on page 12 of this program and are easily identifiable at the Congress via their red lapel pins.

Check your Congress presentation is uploaded in time for your session
Check that your Congress posters were uploaded prior to the Congress at any of the On Demand computers on the ISUOG Lounge (in the exhibition hall) or via the interactive digital signage in the foyer at any time.

Upload, check or modify presentations
If you are a speaker in an oral session you should attend the speaker preparation room to check your talk. The speaker preparation room is located in Room 134 and is open as per page 5 of this program. The technical team will be on hand to help you upload your presentation. This service does get very busy so please leave yourself plenty of time; arrive at least 4 hours before your session and preferably the day before.

View an electronic poster
Electronic posters are not presented orally but rather, are available throughout the Congress on the ISUOG Lounge On Demand viewing terminals.

Register for a Meet the Professor session
You do not need to pay any extra fees to attend a Meet the Professor lunch session, but places are strictly limited to 10 attendees per expert. Register between 15:00 and 18:00 the day before the session at the Congress registration desk. Places will be allocated on a first come, first served basis.

See a live scan
Sessions which include live scan demonstrations are clearly marked on the program at a glance on pages 14 - 17.

Access sessions that you missed
All Congress sessions are recorded and available on the ISUOG On Demand platform. Catch up on sessions you missed at the computer terminals on the ISUOG Lounge or via the interactive digital signage in the foyer.

Collect or purchase your Congress party ticket
If you have pre-purchased a party ticket, this will be given out at registration with your badge. If you would like to purchase a ticket, you can do so at the registration desk during the designated opening times.

Get to the Congress party on time
You will pick up any pre-purchased Congress party bus tickets from registration when you first register onsite. You can also purchase tickets onsite from registration though spaces are limited so do so early to avoid disappointment.

Receive your certificate of attendance
Your certificate of attendance will be emailed to you after the event. However you must complete and submit your evaluation form at registration before 18:00 on Wednesday 17 in order to receive your certificate.

Receive a tax receipt for your registration
Contact isuog2014@contendam.com

Explore the sites of Barcelona
Collect a copy of our LOC visitor guide which provides local tips and travel advice, as prepared by the Local Organising Committee, from the registration desk or online at isuog.org/worldcongress

Submit an abstract for the ISUOG Congress next year
Abstract submissions will be accepted from January to 1 April 2015. Follow the instructions published at isuog.org/WorldCongress to submit your original research.

Register to attend the Congress in Montréal 2015
Registration for next year’s World Congress opens in January 2015. All ISUOG members can take advantage of reduced registration rates but register online at isuog.org/WorldCongress before 11 August to receive further early bird discounts.
### ISUOG meetings

<table>
<thead>
<tr>
<th>Date</th>
<th>Start time</th>
<th>End time</th>
<th>Meeting (secretary)</th>
<th>Meeting room</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Friday</strong></td>
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</tr>
<tr>
<td>12 September</td>
<td>12:00</td>
<td>15:00</td>
<td>Bids Committee</td>
<td>Hilton Diagonal Mar</td>
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<tr>
<td></td>
<td>15:15</td>
<td>16:15</td>
<td>Finance Committee</td>
<td>Hilton Diagonal Mar</td>
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<tr>
<td><strong>Saturday</strong></td>
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<tr>
<td>13 September</td>
<td>09:00</td>
<td>17:00</td>
<td>ISUOG Board meeting</td>
<td>VIP room</td>
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<tr>
<td><strong>Sunday</strong></td>
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<tr>
<td>14 September</td>
<td>13:00</td>
<td>14:00</td>
<td>Advisory Members Lunch</td>
<td>VIP room</td>
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<tr>
<td></td>
<td>14:15</td>
<td>15:45</td>
<td>Editorial Board</td>
<td>VIP room</td>
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<tr>
<td><strong>Monday</strong></td>
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<tr>
<td>15 September</td>
<td>08:30</td>
<td>09:45</td>
<td>Board inductions</td>
<td>Room 130</td>
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<td></td>
<td>08:30</td>
<td>09:30</td>
<td>Safety Committee</td>
<td>Room 129</td>
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<td>09:30</td>
<td>10:30</td>
<td>Clinical Standards Committee</td>
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<td>12:30</td>
<td>UOG Tender Committee</td>
<td>Room 130</td>
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<td>11:30</td>
<td>12:30</td>
<td>Perinatal Doppler SIG</td>
<td>Room 129</td>
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<td></td>
<td>12:30</td>
<td>14:00</td>
<td>Outreach Committee</td>
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<td>12:30</td>
<td>13:45</td>
<td>Journal Editors</td>
<td>Room 130</td>
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<td></td>
<td>14:00</td>
<td>15:00</td>
<td>Membership Development Task Force</td>
<td>Room 129</td>
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<td>14:00</td>
<td>15:00</td>
<td>Simulations Task Force</td>
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<td>16:15</td>
<td>17:15</td>
<td>Gold Medal Committee</td>
<td>Room 129</td>
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<tr>
<td><strong>Tuesday</strong></td>
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<tr>
<td>16 September</td>
<td>08:00</td>
<td>09:00</td>
<td>Nominations Committee</td>
<td>Room 129</td>
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<td>08:30</td>
<td>09:30</td>
<td>Basic training</td>
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<td>3D SIG</td>
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<td>CME task force</td>
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<td>Fetal MRI SIG</td>
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<td>13:00</td>
<td>Patient Information Group</td>
<td>Room 131</td>
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<td>11:00</td>
<td>12:30</td>
<td>Scientific Committee</td>
<td>Room 129</td>
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<td>13:00</td>
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<td>Young Investigators Lunch</td>
<td>Room 130</td>
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<td>15:30</td>
<td>17:00</td>
<td>Education Committee</td>
<td>Room 129</td>
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<tr>
<td><strong>Wednesday</strong></td>
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<tr>
<td>17 September</td>
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<td>Fetal Heart SIG</td>
<td>Room 129</td>
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<td>10:45</td>
<td>12:00</td>
<td>ISUOG Board meeting</td>
<td>Room 130</td>
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<td>12:45</td>
<td>13:45</td>
<td>Exhibitors’ Closing Meeting</td>
<td>Room 129</td>
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<td>14:00</td>
<td>15:00</td>
<td>Montréal Local Organising Committee</td>
<td>Room 130</td>
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</table>

### A SNAPSHOT OF 2013/14

- **8361** ISUOG members
- **1826** attendees at our 23rd World Congress
- **126** countries we have members in
- **72** articles submitted to UOG each month
- **76** web lectures on our website
- **130** approved courses across 26 countries
- **11%** increase in members in Asia
- **3.14** Journal impact factor
- **28** industry partners
- **10,111** Facebook Fans
- **255,034** average journal downloads p/month
- **80m²** of education space in ISUOG’s new office...
- **7261** ISUOG members
- **+20%** (av. increase p/yr, 2009 - 2014)
ISUOG would like to thank the following industry partners for their support of the 24th World Congress:

**Diamond level**
- GE Healthcare

**Platinum level**
- SAMSUNG MEDISON
- TOSHIBA
  - Leading Innovation

**Silver level**
- HITACHI
  - Inspire the Next

**Bronze level**
- illumina

**Other sponsorship**
- Ariosa Diagnostics