



**25th World Congress on Ultrasound
in Obstetrics and Gynecology**

Montréal, Canada, 11–14 October 2015

Final Program

Up to 37 CME credits



Join the Congress conversation
#ISUOG2015



Welcome to our growing ISUOG community

13,300



With a mission to improve women's healthcare through the provision and dissemination of the highest quality education and research, growth is important to us.

All fully paid Congress delegates are now ISUOG members for 2016. You can enjoy your membership benefits immediately. Turn to page 11 to read more about the opportunities and to get involved in our activities here in Montréal or visit our ISUOG Lounge.

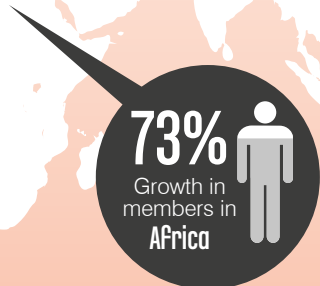
"Welcome to the World Congress in Montréal - our 25th ISUOG World Congress.

ISUOG is dedicated to ensuring that all women have access to competent ultrasound and that obstetric and gynecological conditions are effectively diagnosed. Membership growth is a core strategy towards this, so I am really proud that we have achieved our ambitious target of 10,000 members by 2015!

Our increasing international flavour continues, with more content in more languages. As we enter our 25th birthday year I am excited to see what the future holds for ISUOG."



Aris Papageorgiou
Chair, Membership Development Committee



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Invited faculty

- | | | | |
|---------------------------------|--------------------------------|------------------------|----------------------------|
| A. Abuhamad (USA) | G. DeVore (USA) | A. Johnson (USA) | J. Preisler (Chile) |
| P. Acharya (India) | H.P. Dietz (Australia) | J. Johnson (Canada) | D. Pugash (Canada) |
| J.L. Alcázar (Spain) | P. Doubilet (USA) | D. Jurkovic (UK) | S. Reid (Canada) |
| F. Audibert (Canada) | S. Eik-Nes (Norway) | A. Khalil (UK) | R. Romero (USA) |
| A. Baschat (USA) | V. Eisenberg (Israel) | J. Kingdom (Canada) | G. Ryan (Canada) |
| M. Bebbington (USA) | H. Feltovich (USA) | T. Kiserud (Norway) | J. Rychik (USA) |
| B. Benacerraf (USA) | F. Figueras (Spain) | M. Kramer (Canada) | F. Rypens (Canada) |
| V. Berghella (USA) | D. Fischerová (Czech Republic) | S. Langlois (Canada) | L. Salomon (France) |
| C. Bilardo (Netherlands) | J. Fouron (Canada) | W. Lee (USA) | M. Sanz Cortes (USA) |
| S. Bobdiwala (UK) | K. Fung Kee Fung (Canada) | C. Lees (UK) | P. Schwaerzler (Austria) |
| T. Bourne (UK) | A. Gagnon (Canada) | K.Y. Leung (Hong Kong) | N. Sebire (UK) |
| C. Brezinka (Austria) | H. Gardiner (USA) | G. Malinger (Israel) | A. Tabor (Denmark) |
| R. Brown (Canada) | T. Ghi (Italy) | K. Maršál (Sweden) | S. Tan (Canada) |
| E. Bujold (Canada) | M. Gil Mira (UK) | W. Martins (Brazil) | A. Testa (Italy) |
| S. Campbell (UK) | L. Gindes (Israel) | A. Millischer (France) | F. Tessier (Canada) |
| J. Carvalho (UK) | P. Glanc (Canada) | A. Morency (Canada) | B. Thilaganathan (UK) |
| C. Carsady (USA) | S. Goldstein (USA) | L. Morin (Canada) | D. Timmerman (Belgium) |
| R. Chaoui (Germany) | E. Gratacós (Spain) | A. Ngu (Australia) | I. Timor-Tritsch (USA) |
| V. Chiappa (Italy) | S. Guerriero (Italy) | K. Nicolaidis (UK) | A. Toi (Canada) |
| T. Chudleigh (UK) | L. Guibaud (France) | A. Nuyt (Canada) | B. Tutschek (Switzerland) |
| T. Cohen-Overbeek (Netherlands) | K. Hecher (Germany) | A. Odibo (USA) | F. Ushakov (UK) |
| G. Condous (Australia) | E. Hernandez-Andrade (USA) | N. Okun (Canada) | L. Valentin (Sweden) |
| S. Cooper (Canada) | M. Herrera (Colombia) | A. Ouellet (Canada) | T. Van Den Bosch (Belgium) |
| J. Copel (USA) | L. Hui (Australia) | D. Paladini (Italy) | Y. Ville (France) |
| P. Coquel (France) | J. Hyett (Australia) | A. Papageorghiou (UK) | S. Yagel (Israel) |
| J. Crane (Canada) | E. Jaeggi (Canada) | G. Pilu (Italy) | G. Yeo (Singapore) |
| B. Cuneo (USA) | | L. Platt (USA) | A. Youssef (Italy) |
| | | D. Prayer (Austria) | M. Yudin (Canada) |



Apply for a 2016 Congress travel stipend

Supporting education and research in underserved regions.



Young researchers from underserved regions are invited to apply in 2016 to participate at the Congress in Rome.

Travel, accommodation and registration will be offered to 5 successful applicants who submit an abstract for the Rome Congress and meet the eligibility criteria.

Full terms, conditions and application criteria will be available in January 2016 when the abstract submission for the Rome Congress opens: isuog.org/WorldCongress/2016

Bienvenue à Montréal!

On behalf of ISUOG, its Board of Trustees and the Congress organising committees, it is our pleasure to welcome you back to Canada, to celebrate the 25th anniversary of the World Congress on Ultrasound in Obstetrics and Gynecology. Join us for festivities on Sunday evening, including the Opening Ceremony, a circus performance by 'Les 7 doigts de la main', the Welcome Reception and our 25th Birthday party.

Over the years, the Congress has become the key event in the calendar of imaging in obstetrics and gynecology and in particular for our 13,300 ISUOG members. Combining scientific advances through more than 700 submitted abstracts, workshops providing deeper analysis of specialty areas and masterclasses by world renowned leaders in the field, the program will provide you with a variety of opportunities to meet your needs. Young investigators are the future of our field - look for their new research in the program, support their presentations and see what the future has in store.

New this year are the facilitated poster discussions and interactive Hub activities. Listening to the needs of our delegates for smaller forums for discussion and interaction, this new format will provide opportunities for direct contact with authors, special interest discussions and more hands-on sessions through our simulation workshops.


2015 also marks a milestone for the Millennium Development Goals for maternal health. This theme will be featured in our keynote lectures and review of our Outreach program.

Montréal offers a multitude of activities to make your stay even more enjoyable. Founded almost 400 years ago, the city offers a vast array of cultural activities. Its gastronomy and *joie de vivre* will make your evenings most entertaining. Its colourful fall display will entice you to walk or jog through its streets and discover its secrets.

Thank you for joining our silver anniversary Congress. Your support as a delegate, member, speaker or industry partner is what makes the congress possible. We hope you thoroughly enjoy your time in Montréal.



François Audibert
Congress Chair



Alain Gagnon
Congress Chair



Organising Committees

Congress Chairs

- F. Audibert, *Montréal*
- A. Gagnon, *Vancouver*

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- R. Brown, *Montréal*
- S. Brunet, *Montréal*
- E. Bujold, *Québec City*
- P. Glanc, *Toronto*
- J. Johnson, *Calgary*
- N. Okun, *Toronto*
- A. Ouellet, *Sherbrooke*
- D. Pugash, *Vancouver*
- F. Rypens, *Montréal*

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- K. Fung Kee Fung, *Canada*
- L. Platt, *USA*
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- S. L. Tan, *Canada*

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- A. Ngu, *Australia*

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- E. Hernandez-Andrade, *México*
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- C. Lees, *UK*
- D. Pugash, *Canada*
- L. Salomon, *France*
- D. Timmerman, *Belgium*

ISUOG Secretariat, UK

- S. Johnson, *CEO*
- L. Reese, *Event Manager*

Contact

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Speaker declarations

The following declarations of interest have been received:

R. Chaoui	Speaking at GE Healthcare Satellite Symposium
B. Cuneo	Fetal echocardiography instructor with Philips Ultrasound
H.P. Dietz	Received unrestricted grants from GE (OC09.03, P04.02, P04.03, P04.04, P04.05)
H. Feltovich	Receives engineering and technical support from Siemens (OP09.04)
E. Kalafat	Amnisure (Amnisure International LCC. Boston USA) tests used in this study were donated by ATQ Biotechnology (Ankara, Turkey), an affiliate of QIAGEN Corporation (Hilden, Germany) (OP10.08)
A. Johnson	Paid author for chapters on the diagnosis/management/pathophysiology of Twin Twin Transfusion syndrome in UpToDate.Inc.
W. Lee	Receives limited research support from Samsung and Philips. He will be giving training at GE Healthcare Voluson.
C. Lees	Receives an honorarium paid to institutional research funds and support for educational meetings and loan of ultrasound equipment from Samsung (2012, 2010), GE (2010), Toshiba (2010); Receives an honorarium as the Editor-in-Chief of Fetal Maternal Medicine Review
G. Pilu	Consultant for GE Healthcare without Honorarium.
L. Platt	Research support from GE Healthcare. His presentation on 'Clinical use of 3D ultrasound in obstetrics and gynecology' may include GE Medical system E8 and E10.
P. Schwaerzler	Presentation may include discussion of TISSEEL®, Baxter Healthcare Corporation, Baxter International Inc.
B. Thilaganathan	His talk 25 years in 25 minutes: research, impact, innovation will involve discussion of cfDNA testing which is principally a commercially based service.
P. Taneja	Employee of Illumina and holds stock in the company (OP05.05)

The following presentations will include discussion of commercial products/services:

OC05.03, OC07.04, OC09.02, OC09.03, OC13.01, OC13.02, OC14.03, OC15.01, OC16.02, OC19.08, OC24.03, OP03.01, OP03.07, OP05.04, OP05.05, OP08.01, OP09.04, OP10.03, OP10.08, OP13.06, OP13.09, OP14.04, OP15.04, OP19.02, OP19.04, OP19.07, OP21.07, P01.10, P02.02, P02.06, P04.02, P04.03, P04.04, P04.05, P04.06, P04.08, P05.01, P13.06, P14.11, P15.04, EP01.12, EP01.13, EP04.05, EP06.02, EP08.07, EP09.19, EP09.20, EP09.25, EP11.01

The following presentations will include discussion of investigative or off label uses of products:

OC14.03, OP09.04, OP19.07, P14.11, EP01.12, EP10.03

The following presentations will include discussion of clinical studies:

OC02.01, OC02.02, OC03.03, OC03.05, OC05.03, OC08.03, OC08.04, OC09.02, OC11.07, OC13.01, OC13.02, OC13.03, OC15.01, OC15.06, OC16.02, OC16.05, OC19.05, OC19.06, OC22.01, OC22.05, OC24.03, OC24.05, OC24.06, OP01.04, OP02.06, OP02.08, OP02.09, OP03.01, OP03.07, OP05.05, OP05.06, OP09.07, OP10.02, OP11.09, OP12.03, OP13.07, OP14.01, OP14.04, OP15.04, OP15.07, OP16.01, OP17.10, OP18.06, OP19.02, OP19.06, OP19.07, OP20.10, P01.06, P02.02, P05.01, P05.07, P05.13, P05.14, P06.10, P08.01, P08.11, P09.05, P14.11, P15.04, P15.05, P15.09, P15.11, P16.03, P18.04, P19.05, EP01.06, EP01.14, EP02.07, EP03.02, EP03.03, EP04.04, EP04.06, EP04.07, EP04.10, EP06.04, EP09.08, EP09.19, EP09.25, EP09.26

CME accreditation

Up to 37 CME credits are available for the Congress

The Continuing Professional Development (CPD) Office of the Faculty of Medicine of the University of Montreal is fully accredited by the Association of Faculties of Medicine of Canada (AFMC) and from the Quebec College of Physicians. This activity, approved by the Continuing Professional Development (CPD) Office of the University of Montreal, is an Accredited Group Learning Activity under Section 1, as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada for a maximum of 37 hours. This program meets the accreditation criteria of the College of Family Physicians of Canada and has been accredited by the University of Montreal for up to 37 Mainpro-M1 credits.

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™.

Information on the process to convert Royal College MOC credit to AMA credit can be found at

www.ama-assn.org/go/internationalcme.

For all other participating professionals, this program provides a certificate of participation of 37 hours.

Participants must claim the number of hours according to their participation.

Dates and times

Registration opening hours

Saturday 10 October	07:45 - 17:00
Sunday 11 October	07:45 - 18:00
Monday 12 October	07:00 - 17:30
Tuesday 13 October	07:00 - 17:30
Wednesday 14 October	07:00 - 17:00

The registration area is located in the Congress Foyer, on the fifth floor of the Palais des congrès.

Exhibition opening hours

Sunday 11 October	13.00 - 19.00
Monday 12 October	10:00 - 16:30
Tuesday 13 October	10:00 - 16:30
Wednesday 14 October	10:00 - 16:15

The exhibition is located in Room 517AB, on the fifth floor of the Palais des congrès.

Speaker preparation room opening hours

Saturday 10 October	08:00 - 17:00
Sunday 11 October	08:00 - 17:00
Monday 12 October	07:00 - 17:00
Tuesday 13 October	07:00 - 17:00
Wednesday 14 October	07:00 - 16:30

The speaker preparation room is located in Room 523 on the fifth floor of the Palais des congrès. Speakers MUST check in their presentation at the speaker 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 there will be no laptop plug in facilities in the lecture halls, except by prior arrangement.



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 course

Saturday 10 October	08:30 - 17:15
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ISUOG basic training course

Saturday 10 October	08:30 - 17:00
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Main program

Sunday 11 October	09:30 - 17:40
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(followed by an exclusive performance by Les 7 doigts de la main, welcome reception, 18:15 - 19:00, and 25th Birthday party 19:00 - 00:00)

Monday 12 October	07:30 - 17:30
Tuesday 13 October	07:30 - 17:30
Wednesday 14 October	07:30 - 17:10

(followed by leaving drinks and welcome to Rome 2016, 17:10 - 18:00)

ISUOG Annual General Meeting (AGM)

All fully paid delegates are ISUOG members for 2016 and are invited to attend the AGM.

Sunday 11 October 2015
10:50, Room 517CD, Palais des congrès

ISUOG meetings

For details of scheduled ISUOG Committee meetings, please refer to page 130.

CME accreditation

All delegates' badges will be scanned at the door of session halls. In order to qualify for AMA PRA Category 1 Credits™ or Mainpro-M1 credits, Canadian and American delegates must ensure they are scanned into a Congress session on each day that they wish to claim for.

Social program

Accompanying person's program

Cost per person: \$200 (USD)

The accompanying person's fee 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 Montréal and Québec city guide
- 3 day Montréal metro pass
- Tourisme Montréal activities and attractions discount coupon book
- Admission to 25th Birthday party (if accompanying a delegate)



ISUOG Visitor's Guide to Montréal

Be sure to make the most of the ISUOG Visitor's Guide to Montréal, prepared by our Local Organising Committee which can be found online at: isuog.org/WorldCongress/2015/Social+and+tours/Things+to+do.

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.



Opening ceremony

Palais des congrès

All registered delegates, accompanying persons and exhibitors are invited to attend the complimentary Congress opening program starting with the Chair's welcome at 17:40 on Sunday. The opening ceremony will be followed by a welcome drink in the exhibition area.

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



During the evening Les 7 doigts de la main will deliver a bespoke performance for ISUOG in four Acts, two during the opening ceremony and two during ISUOG's 25th Birthday party:

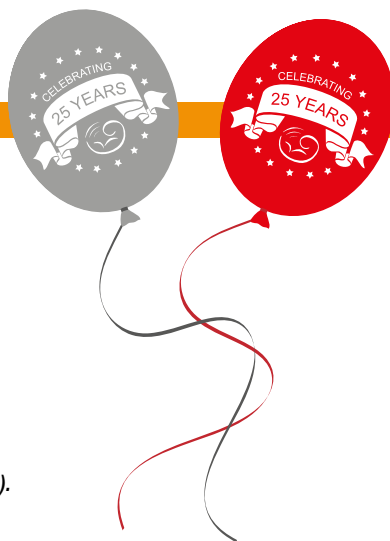
- Act one: Her passion
- Act two: Her voice
- Act three: Her moment
- Act four: Her dynamic

Celebrating ISUOG's 25th Birthday

ISUOG is celebrating its 25th Congress in Montréal ahead of its 25th birthday year in 2016.

To commemorate this achievement, thank our members for their support and celebrate Canadian Thanksgiving we invite pre-booked delegates to join us for ISUOG's 25th Birthday Party; an evening of circus performances and celebration with a family style Thanksgiving meal, beverages, music and dancing. A cash bar for spirits will also be available.

Please note you will not be allowed entry to the Party without your ticket (provided with your badge).



Sunday 11 October, Palais des congrès de Montréal, 7th floor

19:00	Doors open
19:15	Seating for Canadian Thanksgiving dinner
21:00	Dance floor opens

Closing plenary, awards ceremony and leaving drinks

Join us on **Wednesday 14 October** at 16:10 for the final plenary and Congress awards in *Room 517D*.

Our last session will include a lively debate, followed by drinks and snacks to celebrate our 2016 destination city, Rome.

Complimentary to all fully registered delegates and accompanying persons.



General information

The venue's information desk (located in Viger Hall) will be able to provide directions and general information.

Cash machines

Banks in Montréal are normally open Monday to Friday from 10:00 to 18:00. There are cash points located in the **Les Galeries du Palais** shopping area (Ground Floor).

Catering

Tea, coffee and lunches will be served in Room 517AB where the exhibition will be held from lunchtime on Sunday to Wednesday. The first coffee break of the Congress on Sunday will take place in the fifth floor foyer.

Certificates of attendance

Your badge will need to be scanned each day for CME accreditation. To receive your certificate of attendance please complete your Congress evaluation form which will be emailed to your registered email address. If you have any questions please ask at the registration desk.

Communication

Mobile telephones work well within the venue; however we ask that they are kept on silent during Congress sessions.

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.

Recordings / duplications

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

*Please note that Hubs will not be recorded.

First aid

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

Future meetings

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

Lost property

Please hand any lost property to the staff at 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 the sessions or exhibition area. 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:

<input type="checkbox"/> Clear	Full delegates
<input type="checkbox"/> Purple	ISUOG Board
<input type="checkbox"/> Blue	Faculty
<input type="checkbox"/> Yellow	Exhibitors (access to exhibition areas only)
<input type="checkbox"/> Red	Staff (with wording STAFF on badge)

Small badge holder:

<input type="checkbox"/> Clear	Day delegate (with day printed)
<input type="checkbox"/> Clear	Accompanying persons (no access to scientific sessions)
<input type="checkbox"/> Clear	Pre-Congress course
<input type="checkbox"/> Clear	Basic training course

Official language

The official language of the Congress is English. Translation facilities are only available for ISUOG's basic training course.

Parking

The venue has 2 underground parking lots.

Smoking policy

Smoking is not permitted in the building.

WIFI

Complimentary WIFI is available in some areas of the Palais des congrès.


WIFI network: **ISUOG_2015**

Password: **Montreal2015**

Enjoy your ISUOG membership

Welcome to ISUOG! All fully paid delegates are now ISUOG members for 2016 and join a growing community of over 13,300 members across 128 countries. Your benefits include:

Online learning

- 70+ online CME activities available
- 400+ web lectures from ISUOG education courses and Congresses
- World Congress presentations from ISUOG On Demand
-  **visuog** a visual encyclopedia for ultrasound in obstetrics and gynecology

Reduced fees to ISUOG events

- 26th World Congress in Rome, 25 - 28 September 2016
- International Symposium in Miami, USA, 17 - 20 February 2016
- ISUOG's 2016 intensive education courses

Regional education

- Opportunities to participate in ISUOG Outreach projects
- Be part of ISUOG's Approved courses program in 28 countries
- Enjoy our practice guidelines translated in to 12 languages

Journal

- Upgrade for access to *Ultrasound in Obstetrics and Gynecology*, the leading peer reviewed journal in its field.

UOG is now a default online journal. Online members can add a print subscription to their membership by upgrading online.

Turn to page 42 to see what's new 2015....

Upgrade onsite



Celebrating 25 years



#LoveUltrasound



ULTRASOUND

in Obstetrics & Gynecology

CME
online



Does a particular aspect of the program interest you?

Are you looking for further information around a topic featured at the Congress? Would you like to gain further CME points?

Supplement Congress sessions with free UOG articles available to Congress delegates until the end of October or earn related education points via ISUOG's CME Platform!

Focus on fetal growth

Monday 12 October

- Predicting pregnancy outcomes
- Management of growth restriction
- Brain sparing in IUGR: protective or harmful

Tuesday 13 October

- Early IUGR
- Fetal growth and predicting IUGR
- Controversies in the management of selective fetal growth restriction in twin pregnancy

Wednesday 14 October

- Fetal growth assessment
- Novel findings in IUGR

UOG top pick: Ultrasound screening for fetal growth restriction at 36 vs 32 weeks' gestation: a randomized trial (ROUTE) E. Roma, *et al.* V46, pp. 452 - 459

Explore 5 more articles on Growth at:

isuog.org/worldcongress/2015/supplementarylearning

CME platform theme:

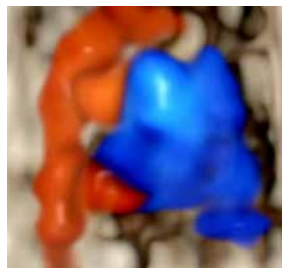
9 CME modules on Growth, including Fatima Crispì's 'Doppler investigation in late FGR and when to deliver' and Christoph Lees's 'Early fetal growth restriction', as well as 5 Journal club CME modules, including Aly Youssef's 'Changes in fetal Doppler indices as a marker of failure to reach growth potential at term'.

Access these UOG October articles and more via:
isuog.org/worldcongress/2015/supplementarylearning

Cardiac

- 4 Congress sessions throughout Monday, Tuesday and Wednesday
- 14 CME modules online
- 1 UOG article

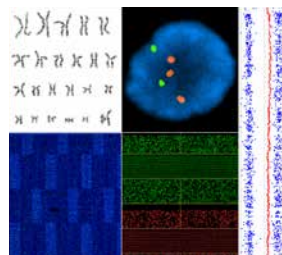
UOG top pick: Fetal cardiac function in late-onset intrauterine growth restriction vs small-for-gestational age, as defined by estimated fetal weight, cerebroplacental ratio and uterine artery Doppler; Pérez-Cruz, M. *et al.* V46, pp 465 - 471



Prenatal genetic screening / diagnosis

- ISPD joint session on NIPT on Sunday, as well as 3 Congress sessions on Monday
- 19 CME modules online
- 2 UOG articles

UOG top pick: Traditional karyotyping vs copy number variation sequencing for detection of chromosomal abnormalities associated with spontaneous miscarriage; Liu, S. *et al.* V46, pp 472 - 477



Brain imaging & anomalies

- 4 Congress sessions throughout Monday
- 16 CME modules online
- 4 UOG articles

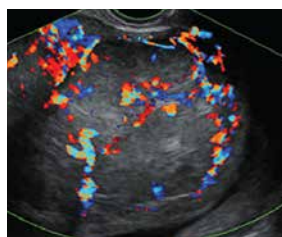
UOG top pick: Risk of ultrasound-detected neonatal brain abnormalities in intrauterine growth-restricted fetuses born between 28 and 34 weeks' gestation: relationship with gestational age at birth and fetal Doppler parameters; Cruz-Martinez, R. *et al.* V46, pp 391 - 397



Oncology

- 1 Congress session on Monday
- 6 CME modules online
- 1 UOG article

UOG top pick: Transvaginal ultrasound for preoperative assessment of myometrial invasion in patients with endometrial cancer: a systematic review and meta-analysis; Alcázar, J. L. *et al.* V 46, pp 405 - 413



Gain further CME online:
isuog.community360.net/login

 **isuog**.org

Participate in Montréal

Visit the ISUOG Lounge in the exhibition hall throughout the Congress to meet the team and explore ISUOG's opportunities:

- Demonstrations on ISUOG's new online CME platform
- Membership clinic; everything you need to know about your ISUOG membership
- Meet an editor who can answer your queries about publishing in UOG
- Poster and presentation viewing via ISUOG's On Demand stations

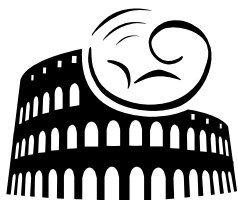


Don't miss:

- **Our 25th Birthday party**
Sunday 11 October 2015, 19:00 - 00:00
- **Our AGM** - updates on current business and member benefits
Sunday 11 October 2015, 10:50 - 11:20
- **Advisory Members meeting** - visit the ISUOG Lounge to sign up for our membership development discussions
Sunday 11 October, 13:00 - 14:30



WIN a registration for Rome 2016



As part of our 25th birthday celebrations, we invite you to engage with ISUOG's growing community and share your passion for ultrasound on our social media channels.

Tag **@ISUOG** and **#LoveUltrasound** for your chance to WIN a registration to our 2016 Congress in Rome.

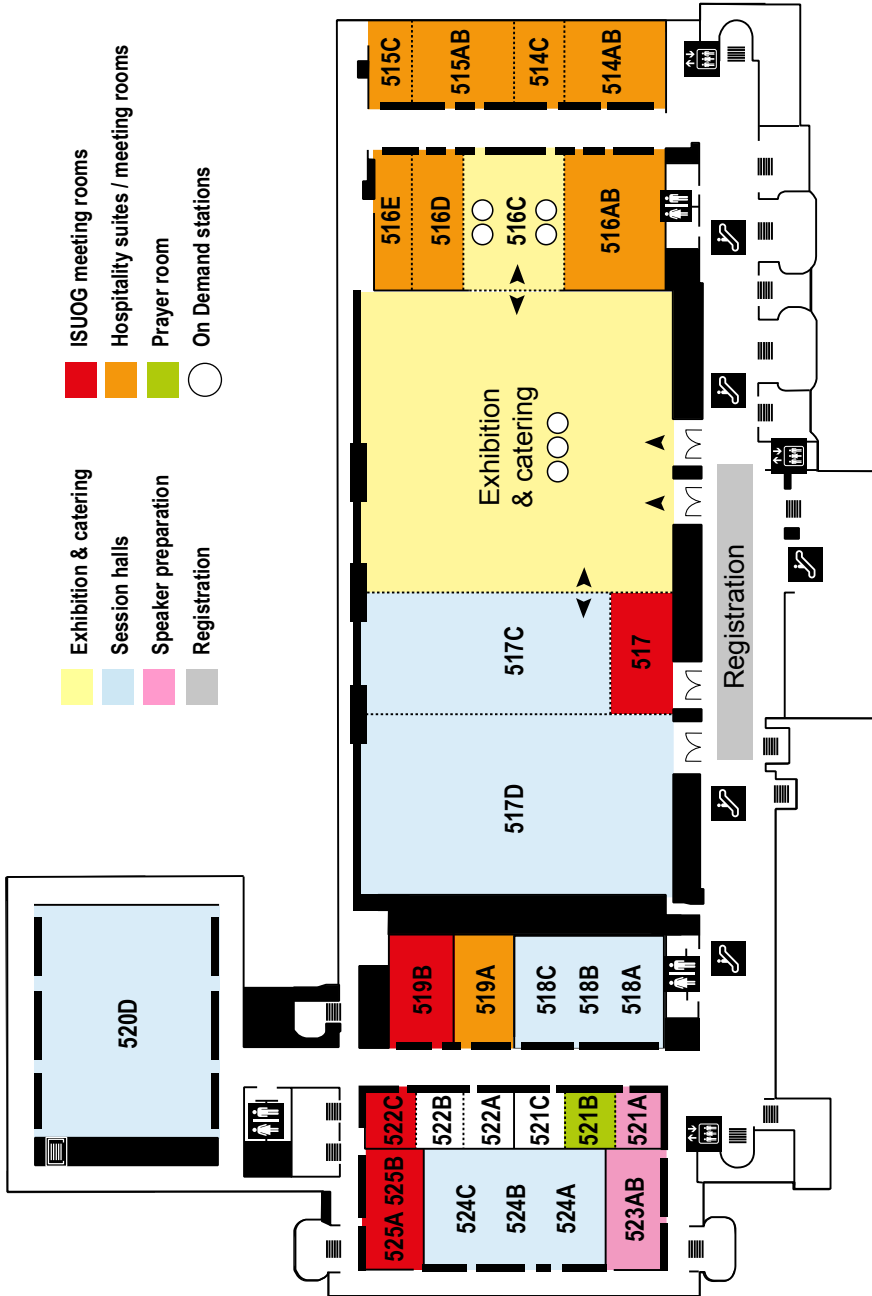
Celebrating 25 years



#LoveUltrasound



Venue floor plans



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 and itinerary planner is available online at: isuog.org/worldcongress/2015 or on mobile devices at: bit.do/isuog2015



Session types explained...

Plenary sessions

Plenary sessions include invited talks and special lectures on Sunday 11 October and Wednesday 14 October.

Scientific sessions

Scientific sessions run in parallel rooms on Monday to Wednesday. Oral sessions include invited talks, oral communication presentations (OCs) and short oral presentations (OPs). Poster discussions (P) take place in the Hubs spaces and electronic posters (EP) are 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 in scientific sessions or in more detail within the daily workshops.

Masterclasses

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

Oral communication (OC)

Presented within 3 main parallel sessions, OC abstract authors are allocated 5 minutes for their presentation (of no more than 5 slides), plus 3 minutes for discussion.

Short oral presentation (OP)

OPs are poster submissions considered suitable for short oral presentation. OP abstract authors are allocated 2 minutes to summarise their poster on 1 slide. Discussion will follow after each presentation.

Electronic posters (EP)

Abstracts accepted as view only posters are available for viewing throughout the Congress on the On Demand stations located at the ISUOG

Lounge in the exhibition hall and in the Hubs space as single PowerPoint slides. Authors may be contacted for discussion through the integrated email facility.

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

Poster discussions (P)

A number of abstracts accepted as posters are grouped together by topic for chaired discussions.

Workshops

Educational workshops take place each day and run in parallel from 14:30 - 15:50 (Sunday) and 14:20 - 15:40 (Monday to Wednesday). They consist of between 3 and 4 didactic lectures on key special interest areas and in some cases live scan demonstrations where appropriate. Anyone can attend these popular sessions 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 will have been asked to demonstrate a particular new technique or technology. ISUOG has determined the content for these sessions, while our sponsors kindly support them by providing technical equipment.

Awards

The Young Investigator prize and awards for the best presentations in each topic area will be announced at the closing session on Wednesday 14 October and formally acknowledged in our journal, *Ultrasound in Obstetrics and Gynecology*.

All OC and OP presentations will be judged within their subject categories by the session chairpersons and the ISUOG Scientific Committee.

Interactive session Hubs

NEW
for 2015

ISUOG's new interactive Hubs in Room 517C will host a variety of research discussions, workshops and networking opportunities. Delegates are encouraged to attend these unique, informal 'drop-in' sessions and sign up for the simulation training workshops*. For the full Hubs program, see page 24.

Meet the Professor

Our professors present informal educational discussions focused on their specialist topic and delegates are encouraged to come with questions too. Interested delegates should take a seat at the Hub hosting the Professor of their choice. First come, first served.

Poster discussions (P)

Join any poster discussion Hub you wish and even move between those running in parallel. Poster authors will be in attendance to answer any questions, comment on their work and to meet delegates interested in their research.

Just images

The presentation of images in a specialist area for comment and discussion. These informal Hubs may include discussions of cases and techniques and will give you a chance to engage with some of ISUOG's renowned faculty up close. First come, first served.

Outreach workshop

Join members of ISUOG's Outreach committee to shape future Outreach programs and discuss issues relevant to the use of ultrasound in obstetrics and gynecology in rural, remote and underserved areas. All delegates welcome.

Simulation: hands on

Three cutting edge, hands-on training workshops utilising the latest in simulation technology on the afternoon of Monday 12 October.

- Simulation workshop for ultrasound in labour*
Director: Tullio Ghi (Italy)
- ISUOG basic training simulation workshop*
Director: Ann Tabor (Denmark)
- Ultrasound guided needle procedures in Obstetrics; Université de Montréal, Wake Forest University School of Medicine and Mayo Clinic School of Medicine*
Director: Brian Brost (USA)

* Places are strictly limited. Priority to pre-Congress course delegates, remaining places to simulation hubs available on a first come first served basis at the registration desk

Special Interest Groups

ISUOG's Special Interest Groups discuss research and educational initiatives and collaborative opportunities as well as updates on the latest developments in clinical practice in their specialist areas:

- 1) Fetal heart
- 2) MRI
- 3) Doppler
- 4) 3D

All delegates welcome.

ISUOG guidelines

As one of ISUOG's most valuable member resources, many of our clinical guidelines have now been translated. ISUOG's guideline Hubs will allow delegates to discuss some of these standards in their own language as well as to network with other physicians practising in their regions.

- 1) ISUOG guidelines in Mandarin
- 2) ISUOG guidelines in English
- 3) ISUOG guidelines in French
- 4) ISUOG guidelines in Spanish

Chairperson / speaker guidelines

If you are chairing or speaking in a session, please refer to our chairperson, speaker and presenter guidelines online at isuog.org/worldcongress/2015/scientific+program/speaker+information

View Congress presentations online, anytime!

isuog 
On Demand

On Demand is available at the Congress with thanks to an unrestricted educational grant from:

PHILIPS

** Industry supported: Scientific content of sessions is defined by the Scientific Committee; ultrasound systems and technical support are provided by sponsors.

Saturday 10 October 2015 - Pre-Congress courses

	520	518
08:00-08:30	REGISTRATION	
08:30-17:15	Ultrasound in term and preterm labour	ISUOG basic training course

Sunday 11 October 2015

	517CD	520	524	518
07:45-09:30	REGISTRATION			
09:30-11:20	Plenaries: ISUOG at 25, expanding our reach			
11:20-11:50	COFFEE AND EP VIEWING			
11:50-13:00	Plenaries and top abstracts			
13:00-14:30	LUNCH AND EP VIEWING			
	Industry sponsored satellite symposium (13:30-14:30)			
14:30-15:50	Workshop NIPT: possibilities and pitfalls	Workshop Clinical use of 3D ultrasound in obstetrics and gynecology LIVE SCAN	Workshop Heart beat: normal, irregular, slow	Workshop Using ultrasound in gynecological oncology
15:50-16:20	COFFEE AND EP VIEWING			
16:20-17:40	Plenaries: a global perspective			
17:40-18:15	Opening ceremony			
18:15-19:00	WELCOME RECEPTION (<i>Exhibition hall</i>)			
19:00-00:00	25 th Birthday Party			

Program key:

Obstetrics sessions	Plenary sessions	Short oral presentations	Masterclasses	Social
Gynecology sessions	Satellite symposia**	Electronic poster viewing	Hubs	Pre-Congress courses*

*See p.29-31 for exact timings including coffee and lunch breaks for pre-Congress courses

**See p.126 for our industry satellite program

Monday 12 October 2015

	517D	520	524	518	517C
07:30-08:10	A. Abuhamad	R. Romero	L. Guibaud	D. Fischerova	
08:15-09:35	OC02 Predicting pregnancy outcomes	OC03 Structural heart disease and cardiac function LIVE SCAN	OC04 Characterising ovarian pathology		
09:40-10:20	OP01 Pre-eclampsia: prediction, prevention, effects	OP02 Functional analysis of the fetal heart	OP03 Evaluating ovarian pathology	OP04 Twin pregnancy	
10:15-10:45	COFFEE AND EP VIEWING				Poster Discussion Hubs: P01 - P04 (10:20-10:40)
10:45-12:05	OC05 First trimester ultrasound: from NT to NIPT	OC06 Fetal neurosonography LIVE SCAN	OC07 Ultrasound in oncology		
12:10-12:50	OP05 First trimester ultrasound: beyond NT	OP06 Fetal brain imaging	OP07 Use of ultrasound in oncology	OP08 Simulation, quality and safety	
12:45-14:20	LUNCH AND EP VIEWING				Poster Discussion Hubs: P05 - P07 (12:55-13:15)
					Meet the Professor Hubs (13:30-14:00)
	Industry sponsored satellite symposium (13:15-14:15)				
14:20-15:40	Workshop Commonly missed cardiac anomalies	Workshop Counselling for brain abnormalities: anatomy to clinical application	Workshop Management of growth restriction	Workshop Lessons from the IOTA study on classifying ovarian masses	Simulation Hubs
15:40-16:10	COFFEE AND EP VIEWING				
16:10-17:30	OC08 Complications in twins	OC09 Urogynecology	OC10 Brain sparing in IUGR: protective or harmful?		

Tuesday 13 October 2015

	517D	520	524	518	517C
07:30-08:10	A. Baschat	Y. Ville	G. DeVore	L. Valentin	
08:15-09:35	OC11 New imaging technologies	OC12 Congenital heart disease LIVE SCAN	OC13 Assessing women with abnormal bleeding		
09:40-10:20	OP09 New imaging technologies	OP10 Delivery prediction throughout the trimesters	OP11 Investigating abnormal bleeding and uterine pathology	OP12 Too many chromosomes, too much water	
10:15-10:45	COFFEE AND EP VIEWING				Poster Discussion Hubs: P08 - P11 (10:20-10:40)
10:45-12:05	OC14 Invasive fetal therapy and diagnosis	OC15 Early IUGR	OC16 Pelvic pain and endometriosis		
12:10-12:50	OP13 Fetal interventions	OP14 Fetal growth and predicting IUGR	OP15 Evaluating women with pelvic pain	OP16 C-section scars and abnormal placental implantation	
12:45-14:20	LUNCH AND EP VIEWING				Poster Discussion Hubs: P12 - P14 (12:55-13:15) ISUOG guidelines Hubs (13:30-14:00)
	Industry sponsored satellite symposium (13:15-14:15)				
14:20-15:40	Workshop Controversies in the management of selective fetal growth restriction in twin pregnancy	Workshop Changing expectations: the 11-14 week routine anomaly scan	Workshop Looking after women with bleeding, pain or other problems in early pregnancy	Workshop How important is the evaluation of the placenta?	Outreach Hubs
15:40-16:10	COFFEE AND EP VIEWING				
16:10-17:30	OC17 Congenital infections	OC18 Fetal interventions in twins LIVE SCAN	OC19 Early pregnancy complications		Special Interest Group Hubs

Program key:

Obstetrics sessions	Plenary sessions	Short oral presentations	Masterclasses	Social
Gynecology sessions	Satellite symposia**	Electronic poster viewing	Hubs	

**See p.126 for our industry satellite program

Wednesday 14 October 2015

	517D	520	524	518	517C
07:30-08:10	R. Chaoui	C. Bilardo	J.C. Fouron	B. Benacerraf	
08:15-09:35	OC20 Clinical dilemmas in second and third trimester ultrasound	OC21 Cardiac function in special situations LIVE SCAN	Workshop Managing the problems of AV malformations in gynecology		
09:40-10:20	OP17 Fetal anatomy from head to toe	OP18 Arrhythmias and structural heart disease	OP19 Reproductive medicine		
10:15-10:45	COFFEE AND EP VIEWING				Poster Discussion Hubs: P15 - P17 (10:20-10:40)
10:45-12:05	OC22 Fetal growth assessment	OC23 Fetal anatomy from head to toe LIVE SCAN	OC24 Reproductive medicine		
12:10-12:50	OP20 Novel findings in IUGR	OP21 Advances in cardiac imaging	OP22 Using emerging or alternative imaging in gynecology		
12:45-14:20	LUNCH AND EP VIEWING				Poster Discussion Hubs: P18 - P19 (12:55-13:15) UOG Journal Hub (12:55-13:25) Meet the Professor Hubs (13:30-14:00)
	Industry sponsored satellite symposium (13:15-14:15)				
14:20-15:40	Workshop Predicting and preventing pre-eclampsia	Workshop How MRI and ultrasound can work well together	Workshop How to examine the pelvis of women with pelvic pain		
15:40-16:10	COFFEE AND EP VIEWING				
16:10-17:10	Closing plenary				
17:10-18:00	Leaving drinks and welcome to Rome 2016! (Foyer)				

Masterclasses at a glance

Day & time	Session	Presenter	Room
Monday 07:30 - 08:10	Advanced fetal echocardiography	A. Abuhamad (USA)	517D
	The screening for and prevention of prematurity should be a standard of care	R. Romero (USA)	520
	Practical approach to ventricomegaly	L. Guibaud (France)	524
	Evaluating metastatic disease in ovarian cancer and tumor extension in endometrial and cervical disease	D. Fischerová (Czech Republic)	518
Tuesday 07:30 - 08:10	Monitoring intervals and decision for delivery in IUGR	A. Baschat (USA)	517D
	Management of complex monochorionic twins	Y. Ville (France)	520
	Ultrasound to detect anomalies in the second trimester	G. DeVore (USA)	524
	How do I evaluate women with a possible ovarian mass, including recognising the features of less common types of ovarian and tubal pathology?	L. Valentin (Sweden)	518
Wednesday 07:30 - 08:10	Early assessment of the fetal brain	R. Chaoui (Germany)	517D
	First trimester ultrasound in the cfDNA era	C. Bilardo (Netherlands)	520
	Central hemodynamic changes in IUGR: the pivotal role of the aortic isthmus	J. Fouron (Canada)	524
	How I evaluate the pelvis of women with pelvic pain: endometriosis, adenomyosis, IUD location and other pathology	B. Benacerraf (USA)	518

Meet some of our expert faculty face to face!

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!



Short oral presentations at a glance

Day & time	Short oral presentation	Room
Monday 09:40 - 10:20	OP01 Pre-eclampsia: prediction, prevention, effects	517D
	OP02 Functional analysis of the fetal heart	520
	OP03 Evaluating ovarian pathology	524
	OP04 Twin pregnancy	518
12:10 - 12:50	OP05 First trimester ultrasound: beyond NT	517D
	OP06 Fetal brain imaging	520
	OP07 The use of ultrasound in oncology	524
	OP08 Simulation, quality and safety	518
Tuesday 09:40 - 10:20	OP09 New imaging technologies	517D
	OP10 Delivery prediction throughout the trimesters	520
	OP11 Investigating abnormal bleeding and uterine pathology	524
	OP12 Too many chromosomes, too much water	518
12:10 - 12:50	OP13 Fetal interventions	517D
	OP14 Fetal growth and predicting IUGR	520
	OP15 Evaluating women with pelvic pain	524
	OP16 Caesarean section scars and abnormal placental implantation	518
Wednesday 09:40 - 10:20	OP17 Fetal anatomy from head to toe	517D
	OP18 Arrhythmias and structural heart disease	520
	OP19 Reproductive medicine	524
12:10 - 12:50	OP20 Novel findings in IUGR	517D
	OP21 Advances in cardiac imaging	520
	OP22 Using emerging or alternative imaging in gynecology	524

ISUOG On Demand



View ISUOG Congress presentations online, anytime!



- **Presentations (OC, OP, P, EP, invited talks and workshops)** will be recorded and made available on our On Demand platform.
- Access to On Demand is available to all delegates during the Congress, on the **On Demand terminals** located at the **ISUOG Lounge** in the exhibition hall. 2016 ISUOG members also have access for the following year online.
- Revisit your favourite lectures or view missed sessions at your leisure.

Hubs at a glance

Day & time	Hub 1	Hub 2	Hub 3	Hub 4
Monday 10:20 - 10:40	Poster discussions			
	P01	P02	P03	P04
12:55 - 13:15	P05	P06	P07	Just images: reproductive medicine; examples and classic cases
13:30 - 14:00	Meet the professors			
	B. Thilganathan How to keep your Editor happy	G. DeVore Just images: head and heart; examples and classic cases	A. Papageorgiou & panel Roundtable on standards for fetal growth	B. Benacerraf Just images: using 3D ultrasound for gynecological scans
14:20 - 17:30	Simulation workshops			
	Simulation for ultrasound in labour	ISUOG basic training simulation workshop	Ultrasound-guided needle procedures in obstetrics	
Tuesday 10:20 - 10:40	Poster discussions			
	P08	P09	P10	P11
12:55 - 13:15	P12	P13	P14	Just images: understanding MRI and 3D
13:30 - 14:00	ISUOG guidelines			
	First trimester: Mandarin	Multiple pregnancy: English	First trimester: French	Spanish
14:20 - 15:40	Outreach workshop			
	Mind map: impact on clinical pathways	Finalising a teaching template: what do we need to deliver?	Role of ISUOG in supporting technology	Maximizing ISUOG partnerships
16:10 - 17:30	Special Interest Groups			
	Heart	MRI	Doppler	3D
Wednesday 10:20 - 10:40	Poster discussions			
	P15	P16	P17	
12:55 - 13:15	P18	UOG Journal Club	P19	
13:30 - 14:00	Meet the professors			
	A. Testa Just images: ovarian masses examples and classic cases	T. Odibo How to run a study	F. Rypens; L. Salomon Just images: CNS (French)	M. Herrera; D. Cafici Advances in Obstetrics Doppler and fetal echo (Spanish)

Posters at a glance

Day & time	Poster discussion Hubs	Room 517C	
Monday 10:20 - 10:40	P01	Delivery prediction throughout the trimesters	Hub 1
	P02	First trimester screening	Hub 2
	P03	Case reports: fetal growth and placenta	Hub 3
	P04	Ultrasound to assess the urogynecology patient	Hub 4
12:55 - 13:15	P05	Predicting adverse outcomes in pregnancy	Hub 1
	P06	Fetal heart function	Hub 2
	P07	Case reports: twins and interventions	Hub 3
Tuesday 10:20 - 10:40	P08	Diagnosis and management of growth restriction	Hub 1
	P09	Fetal echo: functional and anatomical	Hub 2
	P10	Case reports: early pregnancy and gynecology	Hub 3
	P11	Fetal interventions	Hub 4
12:55 - 13:15	P12	New imaging technologies	Hub 1
	P13	Education and low resource settings	Hub 2
	P14	Challenges in genetic diagnosis case reports	Hub 3
Wednesday 10:20 - 10:40	P15	Too many babies, too few placentas	Hub 1
	P16	Early pregnancy problems	Hub 2
	P17	Rare and interesting cases	Hub 3
12:55 - 13:15	P18	Second and third trimester ultrasound	Hub 1
	P19	Case reports: abnormalities of the nervous system, face, heart and vessels	Hub 3

Electronic posters at a glance

Electronic posters (EP) 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.

EP01	Preterm and term labour	EP07	Multiple pregnancy
EP02	Placenta and pregnancy complications	EP08	Screening for pregnancy complications
EP03	Fetal neuro-imaging	EP09	Second and third trimester imaging
EP04	Fetal echocardiography	EP10	Gynecology
EP05	Fetal growth restriction	EP11	Reproductive medicine
EP06	First trimester ultrasound		

How can I access my program and abstract book electronically?



Abstract book is online

Log in to isuog.org to view the program and abstracts, plan your sessions, and get the most out of your time at the 25th World Congress! Download the .pdf version of the program straight onto your smart device and have the program in your pocket.



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Access over 700 abstracts at your fingertips! Download the 2015 abstract book using the UOG Journal app. The tool also offers full and online members enhanced access to this leading peer-reviewed journal.



On Demand

On Demand gives all ISUOG members exclusive and easy access to selected Congress presentations and their associated abstracts. Log in today or meet the ISUOG team at the exhibition stand for a demonstration.



Itinerary planner

Plan your attendance at the Congress, access abstracts or download the program into Excel or directly into your calendar. Download it today on ScholarOne! (isuog2015.abstractcentral.com/planner.jsp).



Congress mobile app

Access the program and abstracts, plan your agenda and view floorplans on the mobile app (bit.do/isuog2015). Import your itinerary planner from ScholarOne.



Stay connected

Stay in touch with the ISUOG community by joining the conversation on our social media platforms. Tag photos **#ISUOG2015** and follow **@isuog** on Instagram and Twitter to stay connected with the latest news!

Abstracts are available:

- ✓ On isuog.org as a .pdf
- ✓ Via UOG website

- ✓ UOG journal app
- ✓ On Demand
- ✓ Itinerary planner
- ✓ Congress mobile app

Join the Congress conversation **#ISUOG2015**



Pre-Congress courses

08:30 - 17:15

Ultrasound in term and preterm labour

520

A one day programme that combines presentations and debate with live scanning and video demonstrations from experts in the field. This course is designed for residents and trainees who are already confident ultrasound practitioners and wish to extend their knowledge and clinical skills in the management of preterm birth, labour and intrapartum ultrasound.



Presented in partnership with:



08:30 - 17:20

ISUOG basic training

518

A theoretical introduction to the basic principles of ultrasound in obstetrics and gynecology. The program is aimed at entry level trainees of any profession or residents/trainees looking to refresh their knowledge and gain CME.



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Program - Saturday 10 October 2015

08:30 - 17:15 **Ultrasound in term and preterm labour** **Room 520**

Chairs: V. Berghella (United States); R. Romero (United States)

- 08:30 Welcome, introduction and learning objectives
V. Berghella (United States)
- Predicting and managing preterm labour**
- 08:45 Epidemiology of preterm birth
V. Berghella (United States)
- 09:15 Prediction of preterm birth in unselected populations (live streamed from the UK)
K. Nicolaidis (United Kingdom)
- 09:45 Ultrasound in women with threatened preterm labour
V. Berghella (United States)
- 10:15 Discussion
- 10:25 - 10:55** **Coffee**
- 10:55 Strategies for the prevention of preterm birth
R. Romero (United States)
- 11:25 LIVE SCAN: tips from the experts: cervical elastography and how it can help [industry supported*]
H. Feltovich (United States)
- 11:55 DEBATE: cerclage in the prevention of preterm birth: a major role versus a minor role
V. Berghella; R. Romero (United States)
- 12:25 - 13:25** **Lunch**
- Using ultrasound to optimise outcomes of labour**
Chairs: V. Berghella (United States); G. Pilu (Italy)
- 13:25 Cervical length in predicting spontaneous term labour
V. Berghella (United States)
- 13:40 Ultrasound before labour: fetal wellbeing, predicting labour outcome and “inducibility”
G. Pilu (Italy)
- 14:10 Assessment for trial of labour after Caesarean section
E. Bujold (Canada)
- 14:40 Ultrasound in labour: the second stage and deciding on operative or vaginal delivery
T. Ghi (Italy)
- 15:10 Discussion
- 15:20 - 15:50** **Coffee**
- 15:50 Video demonstration: tips from the experts: intrapartum ultrasound, impact on delivery in practice
T. Ghi (Italy)
- 16:20 The hidden cost of vaginal birth
H.P. Dietz (Australia)
- 16:50 Discussion
- 17:00 Summary and session ends
V. Berghella (United States)

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

08:30 - 17:20 ISUOG basic training course

Room 518

Chairs: T. Chudleigh (United Kingdom); A. Youssef (Italy)

- 08:30 Welcome and ISUOG recommendations for basic training
A. Tabor (Denmark)
- 08:40 Discussion
- 08:45 Opportunities for trainees
A. Youssef (Italy)
- 08:50 Pre-course evaluation
A. Youssef (Italy)
- 08:55 Principles of ultrasound, getting started, standard fetal biometry and assessment of gestational age
T. Chudleigh (United Kingdom)
- 09:25 Discussion
- 09:30 The second trimester scan: normal anatomy and common malformations
G. Pilu (Italy)
- 10:00 Discussion
- 10:05 Imaging, measurement and assessment of the cervix
G. Pilu (Italy)
- 10:20 Discussion
- 10:25 Examining the uterus, ovaries and adnexae: normal findings
L. Valentin (Sweden)
- 10:50 Discussion

10:55 - 11:25 Coffee

- 11:25 Examining the uterus, ovaries and adnexae: abnormal findings
L. Valentin (Sweden)
- 11:45 Discussion
- 11:50 Assessing the normal and abnormal early pregnancy from 4 to 10 weeks
T. Cohen-Overbeek (Netherlands)
- 12:25 Discussion
- 12:30 Normal and abnormal appearances of the 10 to 14 week fetus, including nuchal translucency
A. Youssef (Italy)
- 13:05 Discussion

13:10 - 14:10 Lunch**Chairs: T. Chudleigh (United Kingdom); T. Cohen-Overbeek (Netherlands)**

- 14:10 Examining first and second trimester twin pregnancies
T. Cohen-Overbeek (Netherlands)
- 14:35 Discussion
- 14:40 The third trimester scan: estimating fetal weight, assessing amniotic fluid and placental site
T. Chudleigh (United Kingdom)
- 15:00 Discussion
- 15:05 What is Doppler and how do we use it?
S. Eik-Nes (Norway)
- 15:25 Discussion

15:30 - 16:00	Coffee
16:00	Monitoring growth in singleton and twin pregnancies <u>T. Cohen-Overbeek</u> (Netherlands)
16:30	Discussion
16:35	Individual and departmental quality assessment <u>S. Eik-Nes</u> (Norway)
16:50	Discussion
16:55	Interactive quiz <u>S. Eik-Nes</u> (Norway); <u>T. Cohen-Overbeek</u> (Netherlands)
17:15	Post course evaluation <u>A. Youssef</u> (Italy)

In training? ...more opportunities in Montréal

ISUOG's basic training course translations

Course recordings will be available on the ISUOG website late in the year; members can review in their own language!



Practical training

On Monday 12 October ISUOG will run its first hands-on basic training workshop using simulation technology. If you weren't able to reserve a place this time, look out for more state-of-the-art ISUOG practical training courses throughout 2016. Discounts for trainees will apply!



UOG Journal Club

Trainees receive free access to UOG as part of their membership. You are invited to join the onsite UOG Journal Club on Wednesday 14 October in the Hubs space (Room 517C, 12:55-13:15) to see how easy it is to host your own UOG Journal Clubs throughout the year.



Continuing medical education points

ISUOG's basic training recommendations are published on our new CME platform. Members are invited to make the most of this complimentary resource; complete the basic training learning module and pass the post-test to earn CME credit.



Membership benefits

Visit the ISUOG Lounge to learn about special trainee member benefits. Find out if your institution could qualify to provide free online memberships for trainees in your country!

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Join our journal activities at Congress:

- UOG Journal Club
Wednesday 14 October in the Hubs space (Room 517C, 12:55-13:15).
- Meet the Professor: 'how to keep your Editor happy'
Monday 12 October 2015 at 13:30 - 14:30
- Supplement your Congress experience - look out for our links to relevant current journal content isuog.org/worldcongress/2015/supplementarylearning (more information on pages 12-13)

Contact us for more information: info@isuog.org | +44 (0)20 7471 9955

*All Congress delegates receive ISUOG membership for 2016. New members receive core membership which does not include access to the journal. If you are unsure about what membership tier you have, please visit the ISUOG Lounge and speak to one of the team

Program - Sunday 11 October 2015

09:30 - 10:50	Plenary ISUOG at 25: expanding our reach	517CD
10:50 - 11:20	AGM ISUOG past, present and future	517CD
11:50 - 13:00	Plenaries and top abstracts	517CD
13:30 - 14:30	Industry sponsored satellite symposium	
14:30 - 15:50	Workshops NIPT: possibilities and pitfalls Clinical use of 3D ultrasound in obstetrics and gynecology Heart beat: normal irregular slow Using ultrasound in gynecological oncology	517CD 520 524 518
16:20 - 17:40	Plenary A global perspective	517CD
17:40 - 18:15	Opening ceremony	517CD
18:15 - 19:00	Welcome reception	517AB
19:00 - 00:00	ISUOG's 25th Birthday Party	710

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Have your say in Montréal!

Attend the ISUOG AGM

Sunday 11th October
10:50 - 11:20
Room 517CD

The agenda and accompanying documents are available at:
isuog.org/membership/AGM



Advisory Members meeting

NEW

Sunday 11th October
13:00 - 14:30
Room 720

Visit the ISUOG Lounge to sign up for our membership development discussions (limited places available)

Special Interest Groups

NEW

Tuesday 13th October
16:10 - 17:30
Room 517D

What's your topic of special interest? Discover more at our new Hub sessions...



Perinatal vascular and Doppler



3D ultrasound



Fetal MRI



Fetal heart

Program - Sunday 11 October 2015

09:30 - 10:50 Plenaries: ISUOG at 25, expanding our reach Room 517CD

- Chairs: A. Ngu (Australia); A. Gagnon (Canada)**
- 09:30 Welcome from the ISUOG President
A. Ngu (Australia)
- 09:35 Ovarian cancer screening: the final curtain
S. Campbell (United Kingdom)
- 09:55 Presentation of the Ian Donald Gold Medal 2015 to T. Kiserud
S. Eik-Nes (Norway); L. Platt (United States)
- 10:05 Ian Donald Gold Medal acceptance: scanning for the future
T. Kiserud (Norway)
- 10:25 25 years in 25 minutes: research, impact, innovation
Moderator: B. Thilaganathan (United Kingdom)
Obstetrics: J. Copel (United States); S. Eik-Nes (Norway)
Gynecology: D. Timmerman (Belgium); B. Benacerraf (United States)

10:50 - 11:20 ISUOG 25 years on and AGM Room 517CD

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 Montréal.

The agenda and accompanying documents are available at isuog.org/membership/AGM

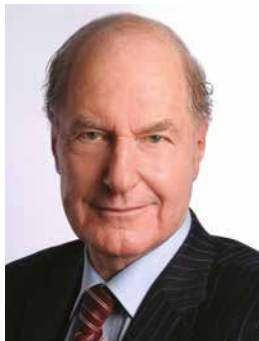
11:20 - 11:50 Coffee and e-poster viewing (EP)

11:50 - 13:00 Plenaries and top abstracts Room 517CD

- Chairs: A. Papageorghiou (United Kingdom); T. Bourne (United Kingdom)**
- 11:50 Stuart Campbell lecture: implementation of maternal blood cell-free DNA testing in early screening for aneuploidies
M. Gil (United Kingdom)
- 12:10 ^{YI} Reduced fetal cerebral oxygen consumption is associated with smaller brain size in fetuses with congenital heart disease OC01.01
L. Sun^{1,2}; C. Macgowan²; J. Sled²; S. Yoo²; C. BSc²; P. Porayette²; L. Grosse-Wortmann²; E. Jaegg²; B. McCrindle²; J.C. Kingdon²; E. Hickey²; S. Miller²; M. Seed² ¹(China); ²(Canada)
- 12:17 Discussion
- 12:20 External validation of IOTA simple descriptors and simple rules for differential diagnosis of adnexal masses OC01.02
M. Pascual¹; J.L. Alcázar¹; S. Guerriero²; B. Graupera¹; L. Hereter¹; S. Ajossa²; J. Minguez¹; M. Jurado¹ ¹(Spain); ²(Italy)
- 12:27 Discussion
- 12:30 Atypical karyotypic abnormalities not identified through NIPT: the value of identifying fetal anomalies at the first or second trimester scan? OC01.03
O. Petersen¹; C. Ekelund¹; J. Hyett²; A. Tabor¹; I. Vogel¹ ¹(Denmark); ²(Australia)
- 12:37 Discussion

^{YI} This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).

Keynote speaker biographies



Stuart Campbell

Professor Stuart Campbell is a pioneer of Ultrasound Diagnosis in medicine. He has introduced many new techniques such as the routine pregnancy scan, the early diagnosis of fetal abnormalities, the assessment of fetal growth and wellbeing, screening for pre-eclampsia by uterine artery Doppler and ultrasound screening for ovarian cancer. He holds numerous international honours and has recently introduced 3D scanning to the UK and set up the first 4D Ultrasound Clinic. Professor Campbell is the former Academic Head of the Department of Obstetrics and Gynaecology at Kings College Hospital and St George's Hospital Medical School, London. He was the founding President of ISUOG and founding Editor in Chief of *Ultrasound in Obstetrics and Gynecology* and is an Honorary Fellow of the American College of Obstetricians and Gynaecologists.

Ian Donald Gold Medal 2015 - Torvid Kiserud

ISUOG welcomes Torvid Kiserud to Montréal 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.



Torvid is attached to Haukeland University Hospital, where he built up and led a fetal medicine unit and started a research group focussed on clinical physiology. This earned him a professorship at University of Bergen, Norway. Torvid pioneered ductus venosus as a clinical tool, standardised the technique, established reference ranges, unfolded its functional relation to the liver and foramen ovale, its hemodynamics and regulatory mechanisms. This directed him to fetal liver circulation, its developmental importance and clinical relevance. Fetal growth and venous and arterial hemodynamics in general are major areas for his search for mechanisms of diseases, and healthy development. However, this was his second career in life, his first being a busy commitment in obstetrics and women's health spending many years in Ethiopia. His recognition in emergency obstetrics and particularly fistula repair brought him to establish a fistula centre in Norway that was recently made national referral centre.



María del Mar Gil Mira

Mar qualified in Medicine and specialized in Obstetrics and Gynecology in Madrid, Spain. Since 2012 she has been a Research Fellow at Harris Birthright Research Centre for Fetal Medicine, King's College Hospital, London. From 2012 to date she's published, under the supervision of Professor Kypros Nicolaides, a series of clinical validation and implementation studies on cell free DNA analysis of maternal blood for early screening of aneuploidies. She's attended several specialist meetings on this field which also constitutes her PhD.


12:40	The risk of 22q11.2 deletion in fetuses with a right aortic arch and a normal heart <i>N. Volpe; A. Perolo; V. De Robertis; I. Cataneo; G. Campobasso; T. Frusca; T. Ghi; G. Piliu; P. Volpe (Italy)</i>	OC01.04
12:45	Discussion	
12:50	Is cerebroplacental ratio a marker of impaired fetal growth velocity and adverse pregnancy outcome? <i>A. Khalil; N. Khan; J. Morales-Roselló; P. Agarwal; A. Papageorgiou; A. Bhide; B. Thilaganathan (United Kingdom)</i>	OC01.05
12:57	Discussion	

13:00 - 14:30 Lunch and e-poster viewing (EP)

13:30 - 14:30 Industry sponsored satellite symposium**

14:30 - 15:50 Workshop: NIPT: possibilities and pitfalls Room 517CD

Chairs: S. Langlois (Canada); J. Johnson (Canada)

14:30	NIPT based on cfDNA: the basics <i>S. Langlois (Canada)</i>	[in conjunction with ISPD]
14:50	Paradigms of screening: routine versus selective cfDNA screening <i>A. Tabor (Denmark)</i>	
15:10	Beyond NIPT for the common trisomies: zooming in and out of the fetal genome <i>L. Hui (Australia)</i>	
15:30	NIPT: what are the downstream effects? <i>J. Johnson (Canada)</i>	

14:30 - 15:50 Workshop: Clinical use of 3D ultrasound in obstetrics and gynecology Room 520

Chairs: L. Gindes (Israel); L. Platt (United States)

	LIVE SCANS [industry supported*]:	
14:30	Clinical application of 3D ultrasound in fetal anatomical assessment: collaborative approach <i>W. Lee; L. Platt (United States)</i>	
15:10	Clinical application of 3D ultrasound in gynecological anatomy: collaborative approach <i>B. Benacerraf; I. Timor-Tritsch (United States)</i>	

14:30 - 15:50 Workshop: Heart beat: normal, irregular, slow Room 524

Chairs: J. Carvalho (United Kingdom); J. Copel (United States)

14:30	What is important when assessing cardiac rhythm? <i>B. Tutschek (Switzerland)</i>
14:50	Skipped beats: usually benign... but when are they not? <i>J. Carvalho (United Kingdom)</i>

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

** Luncheon 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 126 for our satellite program.



Michael Kramer

Dr. Michael S. Kramer is James McGill Professor in the Departments of Pediatrics and of Epidemiology and Biostatistics at McGill University Faculty of Medicine and Director of the Centre for Outcomes Research and Evaluation at the Research Institute of the McGill University Health Centre. In 2011, Dr. Kramer was elected a Fellow of the Royal Society of Canada in the Life Sciences Division of the Academy of Science, in recognition of the important impacts that his research on infant feeding and adverse pregnancy outcomes has had on clinical practice and public health policy. Dr. Kramer has authored or co-authored 20 books and monographs, and has published over 400 original articles. In 2010, Dr. Kramer was the recipient of the Paediatric Academic Leadership–Clinical Investigator Award from the Pediatric Chairs of Canada in October. This award recognized his administrative leadership in the child health research community in Canada and his prominent role in influencing child health globally.



Neil Sebire

Professor Sebire is a clinical academic Paediatric and Perinatal Pathologist at a specialist London Paediatric Hospital, and as Lead for the NIHR BRC Diagnostics and Imaging Theme, is responsible for delivering translational research projects across radiology and laboratory medicine in one of the leading units of patient-focused research in this field. He has held numerous Regional and National strategic and academic roles, including within RCOG, RCPATH, CCLG and BRIPPA, including training. His main current research interests include placental pathology of obstetrical complications and gestational trophoblastic disease, paediatric surgical pathology contributions to cutting-edge therapies, and research involving novel postmortem investigations into causes of sudden unexpected death in infancy and development of the minimally invasive autopsy. He is passionate about adopting new technologies into diagnostic histopathology practice and developing novel autopsy services. He has published 4 textbooks, >500 articles in peer-reviewed journals and has >15,000 citations to published works.



Aris Papageorghiou

Aris divides his time between being a BRC Senior Fellow in Fetal Medicine at the Nuffield Department of Obstetrics and Gynaecology, and Consultant in Fetal Medicine and Obstetrics at St George's Healthcare NHS Trust in London. He obtained his medical degree at the University of Sheffield. He undertook his MD thesis at the University of London, on the prediction of pre-eclampsia using uterine artery Doppler. During this time he was a Research Fellow at the Harris Birthright Research Centre for Fetal Medicine. Following this he completed his specialisation in Obstetrics and Gynaecology, and undertook subspecialist training in Maternal and Fetal Medicine while a lecturer at St George's, University of London. Aris's clinical and research interests include obstetric ultrasound, normal and abnormal fetal growth, pre-eclampsia and fetal diagnosis and treatment.

- 15:10 Sinus bradycardia: when is it not fetal distress?
B. Cuneo (United States)
- 15:30 Fetal heart block: can we prevent occurrence and recurrence?
J. Copel (United States)

14:30 - 15:50 Workshop: Using ultrasound in gynecological oncology Room 518

- Chairs: A. Testa (Italy); P. Glanc (Canada)**
- 14:30 2D/3D ultrasound or MRI to assess parametrial infiltration in cervical cancer
V. Chiappa (Italy)
- 14:50 Imaging endometrial cancer
A. Testa (Italy)
- 15:10 What ultrasounds tell me before I operate on ovarian cancer patients
D. Fischerová (Czech Republic)
- 15:30 Using MRI in gynecological oncology including evaluating difficult masses
TBC

15:50 - 16:20 Coffee and e-poster viewing (EP)

16:20 - 17:40 Plenaries: a global perspective Room 517CD

- Chairs: A. Abuhamad (United States); F. Audibert (Canada)**
- 16:20 Global burden of preterm birth
M. Kramer (Canada)
- 16:40 Reducing stillbirth: autopsy role, limitations and future directions
N. Sebire (United Kingdom)
- 17:00 A global standard for fetal growth (intergrowth)
A. Papageorghiou (United Kingdom)
- 17:20 Global maternal and child health: technological advances, political will and access to care
A. Abuhamad (United States)

17:40 - 18:15 Opening ceremony

18:15 - 00:00 Welcome reception followed by ISUOG's 25th Birthday Party



Alfred Abuhamad

Dr. Abuhamad currently serves as Professor and Chairman for the Department of Obstetrics and Gynecology and director of the Maternal-Fetal Medicine Fellowship Program. He is the president of the Society of Ultrasound in Medical Education, Chair of the American Congress of Obstetrics and Gynecology Council on Patient Safety in Women's Health Care and serves on the Executive Committees of the International Society of Ultrasound in Obstetrics and Gynecology and the Society of Maternal-Fetal Medicine. Dr. Abuhamad is the immediate past-President of the American Institute of Ultrasound in Medicine and the National Perinatal Quality Forum. He has published more than 160 peer-reviewed manuscripts, received numerous national awards and has authored five textbooks in fetal echocardiography, ultrasound in Obstetrics and Gynecology, and office procedures. Dr. Abuhamad led several ultrasound training missions to the developing world. He is well known internationally for his work in ultrasound, prenatal diagnosis, fetal echocardiography, global outreach and patient safety.



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Program - Monday 12 October 2015

07:30 - 08:10	Masterclasses	
08:15 - 09:35	Parallel sessions (OC)	
	Predicting pregnancy outcomes	<i>517D</i>
	Structural heart disease and cardiac function	<i>520</i>
	Characterising ovarian pathology	<i>524</i>
09:40 - 10:20	Short oral presentations (OP)	
	Pre-eclampsia: prediction, prevention, effects	<i>517D</i>
	Functional analysis of the fetal heart	<i>520</i>
	Evaluating ovarian pathology	<i>524</i>
	Twin pregnancy	<i>518</i>
10:20 - 10:40	Poster discussion Hubs (P)	<i>517C</i>
10:45 - 12:05	Parallel sessions (OC)	
	First trimester ultrasound: from NT to NIPT	<i>517D</i>
	Fetal neurosonography	<i>520</i>
	Ultrasound in oncology	<i>524</i>
12:10 - 12:50	Short oral presentations (OP)	
	First trimester ultrasound: beyond NT	<i>517D</i>
	Fetal brain imaging	<i>520</i>
	The use of ultrasound in oncology	<i>524</i>
	Simulation, quality and safety	<i>518</i>
12:55 - 13:15	Poster discussion (P) and Just Images Hubs	<i>517C</i>
13:15 - 14:15	Industry sponsored satellite symposium	<i>517D</i>
13:30 - 14:00	Meet the Professors	<i>517C</i>
14:20 - 15:40	Workshops	
	Commonly missed cardiac anomalies	<i>517D</i>
	Counselling for brain abnormalities: anatomy to clinical application	<i>520</i>
	Management of growth restriction	<i>524</i>
	Lessons from the IOTA study on classifying ovarian masses	<i>518</i>
14:20 - 17:30	Simulation workshops	<i>517C</i>
16:10 - 17:30	Parallel sessions (OC)	
	Complications in twins	<i>517D</i>
	Urogynecology	<i>520</i>
	Brain sparing in IUGR: protective or harmful?	<i>524</i>

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Hands on simulation

- Basic Training
- Ultrasound in Labour
- Invasive Procedures

Saturday 10th October

Pre-booking required

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Interactive Hubs

- Journal sessions
- Meet the Professors
- Just images
- Special Interest Groups
- Guidelines
- Poster discussion

HUB Sessions take place

Monday - Wednesday, 11:10 - 17:50

For more information please see p. 17 & 24

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Program - Monday 12 October 2015

07:30 - 08:10		Masterclasses	
		Advanced fetal echocardiography <i>A. Abuhamad (United States)</i>	Room 517D
		The screening for and prevention of prematurity should be a standard of care <i>R. Romero (Italy)</i>	Room 520
		Practical approach to ventricomegaly <i>L. Guibaud (France)</i>	Room 524
		Evaluating metastatic disease in ovarian cancer and tumor extension in endometrial and cervical disease <i>D. Fischerová (Czech Republic)</i>	Room 518
08:15 - 09:35		Predicting pregnancy outcomes	Room 517D
		Chairs: W. Lee (United States); V. Berghella (United States)	
08:15		Predicting pregnancy outcomes <i>F. Audibert (Canada)</i>	
08:35		The impact of maternal weight gain on fetal growth disorders is modulated by early placental size <i>N. Schwartz; L. Levine; S. Parry (United States)</i>	OC02.01
08:40		Discussion	
08:43		^{Y1} Prediction of perinatal outcomes by third trimester fetal biometry and maternal characteristics <i>Q. Rebou^{1,2}; A. Delabaere¹; Y. Wu¹; A. Nuyt¹; W. Fraser¹; Z. Luo¹; C. Chauleur²; F. Audibert¹ (Canada); ²(France)</i>	OC02.02
08:48		Discussion	
08:51		Effect of maternal body composition on average fetal weekly weight gain and neonatal biometry <i>M. Mongelli; D. Ting; R. Benzie; G. Condous (Australia)</i>	OC02.03 & OC02.04
08:56		Discussion	
08:59		Prediction of macrosomic newborn from ultrasound biometry and maternal characteristics <i>L. Gray²; M. Mongelli¹; L. Thornburg²; L. Mack²; C. Glantz²; E. Pressman²; T. Ozcan² (Australia); ²(United States)</i>	OC02.05
09:04		Discussion	
09:07		^{Y1} First-trimester ultrasonic biopsy of the placenta for the prediction of pre-eclampsia <i>S. Markey¹; S. Demers^{1,2}; M. Girard¹; A. Tétu¹; K. Gouin¹; E. Bujold¹ (Canada); ²(United Kingdom)</i>	OC02.06
09:12		Discussion	
09:15		Maternal cardiac remodelling and dysfunction in pre-eclampsia: a three dimensional speckle-tracking echocardiography study <i>J. Cong; T. Fan; X. Yang; G. Cheng; Z. zhang (China)</i>	OC02.07
09:20		Discussion	
09:23		The effect of Caesarean section operative technique on the occurrence of large hysterotomy scar defects: a randomised trial <i>Q. Vikhareva^{1,3}; A. Baranov¹; T. Lavesson²; G. Ghosh¹; K.A. Salvesen^{1,3} (Sweden); ²(Norway); ³(Russian Federation)</i>	OC02.08
09:28		Discussion	

^{Y1} This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).

08:15 - 09:35	Structural heart disease and cardiac function	Room 520
	Chairs: D. Paladini (Italy); E. Jaeggi (Canada)	
08:15	LIVE SCAN: optimal screening for structural heart defects [industry supported*] <i>J. Cope</i> (United States)	
08:35	Cephalic biometry and cerebrovascular resistance in the fetus with hypoplastic left heart syndrome <i>J. Rychik</i> ¹ ; <i>X. Liu</i> ^{1,2} ; <i>Z. Tian</i> ¹ (United States); ² (China)	OC03.01
08:40	Discussion	
08:43	Fetal MRI as an adjunct to detailed ultrasound scan in fetuses affected by congenital heart defect <i>P. Sonigo</i> ; <i>A. Millischer</i> ; <i>E. Thellier</i> ; <i>C. Lamourededieu</i> ; <i>D. Bonnet</i> ; <i>F. Raimondi</i> ; <i>Y. Ville</i> ; <i>N. Boddaert</i> ; <i>L. Salomon</i> (France)	OC03.02
08:48	Discussion	
08:51	Assessment of ventricular global longitudinal function in hypoplastic left heart syndrome using velocity vector imaging <i>X. Yang</i> ; <i>Y. He</i> ; <i>J. Han</i> ; <i>Y. Zhao</i> ; <i>Y. Zhang</i> ; <i>X. Gu</i> ; <i>L. Sun</i> (China)	OC03.03
08:56	Discussion	
08:59	Retrograde telesystolic flow (RTSF) in the aortic isthmus of normal fetuses: what does it mean? <i>J. Fouron</i> ¹ ; <i>R. Gendron</i> ¹ ; <i>R. Lulic Jurjevic</i> ² (Canada); ² (Croatia)	OC03.04
09:04	Discussion	
09:07	Application of combined echocardiography STIC and computational fluid dynamics (CFD) technique in the study of fetal aortic isthmus coarctation hemodynamics <i>Z. Chen</i> ; <i>Y. Zhou</i> ; <i>J. Wang</i> ; <i>Y. He</i> ; <i>Y. Wang</i> ; <i>W. Shi</i> (China)	OC03.05
09:12	Discussion	
09:15	Neurodevelopment in children with congenital heart disease <i>D. Paladini</i> (Italy)	

08:15 - 09:35	Characterising ovarian pathology	Room 524
	Chairs: D. Timmerman (Belgium); P. Glanc (Canada)	
08:15	What IOTA tells us about the long-term behaviour of ovarian pathology <i>D. Timmerman</i> (Belgium)	
08:35	Ultrasound features of mucinous ovarian tumors <i>J.L. Alcázar</i> ¹ ; <i>M. Pascual</i> ¹ ; <i>S. Guerrero</i> ² ; <i>N. Rams</i> ¹ ; <i>L. Juez</i> ¹ ; <i>S. Ajossa</i> ² ; <i>B. Graupera</i> ¹ ; <i>L. Hereter</i> ¹ ; <i>A. Cappa</i> ² ; <i>M. Pero</i> ¹ ; <i>M. Perniciano</i> ² ; <i>M. Jurado</i> ¹ (Spain); ² (Italy)	OC04.01
08:40	Discussion	
08:43	Transvaginal color Doppler ultrasound in early diagnosis of ovarian cancer: a sixteen-year experience <i>M. Pascual</i> ; <i>B. Graupera</i> ; <i>L. Hereter</i> ; <i>F. Tresserra</i> ; <i>I. Rodríguez</i> ; <i>M. Cusido</i> ; <i>R. Fábregas</i> (Spain)	OC04.02
08:48	Discussion	
08:51	Quantifying the risk of ovarian malignancy prior to surgery based on the IOTA Simple Rules <i>B. Van Calster</i> ¹ ; <i>D. Timmerman</i> ¹ ; <i>A. Testa</i> ² ; <i>L. Savelli</i> ² ; <i>D. Fischerová</i> ³ ; <i>C. Van Holsbeke</i> ⁴ ; <i>E. Epstein</i> ⁴ ; <i>D. Franchi</i> ² ; <i>J. Kaijser</i> ^{1,7} ; <i>A. Czekierdowski</i> ⁵ ; <i>S. Guerrero</i> ² ; <i>R. Fruscio</i> ² ; <i>F. Leone</i> ² ; <i>A. Rossi</i> ² ; <i>I. Vergote</i> ^{1,1} ; <i>T. Bourne</i> ⁶ ; <i>L. Valentin</i> ⁴ (Belgium); ² (Italy); ³ (Czech Republic); ⁴ (Sweden); ⁵ (Poland); ⁶ (United Kingdom); ⁷ (Netherlands)	OC04.03
08:56	Discussion	

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

08:59	Natural history of ovarian endometrioma in pregnancy <i>K. Pateman; T. Holland; F. Moro; D. Mavrellos; X. Foo; D. Jurkovic (United Kingdom)</i>	OC04.04
09:04	Discussion	
09:07	Sonographic assessment of ovarian masses: comparative retrospective cohort study on accuracy of IOTA LR1 versus IOTA LR2 versus Sassone scoring system <i>R. Salvador; M. De Vera (Philippines)</i>	OC04.05
09:12	Discussion	
09:15	Analysis of the diagnostic value of gynecologic imaging reporting and data system, HE4 and CA125 in the presurgical assessment of adnexal tumors <i>N. Abdalla; M. Kania; M. Bachanek; K. Cendrowski; W. Sawicki (Poland)</i>	OC04.06
09:20	Discussion	
09:23	Assessment of the vascular tree marginally improves discrimination of ovarian tumors difficult to classify as benign or malignant on 2D ultrasound <i>P. Sladkevicius⁶; L. Jokubkiene⁶; S. Guerriero⁶; E. Epstein⁶; D. Franchi⁵; D. Fischerová⁴; A. Testa³; M. Pascual³; A. Czekierdowski²; C. Van Holsbeke¹; D. Timmerman¹; L. Ameye¹; R. Fruscio⁵; L. Valentin⁶ ¹(Belgium); ²(Poland); ³(Spain); ⁴(Czech Republic); ⁵(Italy); ⁶(Sweden)</i>	OC04.07
09:28	Discussion	

09:40 - 10:20 Short oral presentations (OP)

OP01: Pre-eclampsia: prediction, prevention, effects	Room 517D
<i>Chairs: T. Kiserud (Norway); J. Johnson (Canada)</i>	
OP02: Functional analysis of the fetal heart	Room 520
<i>Chairs: H. Gardiner (United States); M. Herrera (Colombia)</i>	
OP03: Evaluating ovarian pathology	Room 524
<i>Chairs: D. Timmerman (Belgium); J. Preisler (United Kingdom)</i>	
OP04: Twin pregnancy	Room 518
<i>Chairs: Y. Ville (France); G. Yeo (Singapore)</i>	

10:15 - 10:45 Coffee and e-poster viewing (EP)

10:20 - 10:40 Poster discussion Hubs (P) **Room 517C**

P01: Delivery prediction throughout the trimesters	Hub 1
<i>Chair: L. Platt (United States)</i>	
P02: First trimester screening	Hub 2
<i>Chair: C. Bilardo (Netherlands)</i>	
P03: Case reports: fetal growth and placenta	Hub 3
<i>Chair: C. Brezinka (Austria)</i>	
P04: Ultrasound to assess the urogynecology patient	Hub 4
<i>Chair: V. Eisenberg (Israel)</i>	

10:45 - 12:05 First trimester ultrasound: from NT to NIPT **Room 517D**

Chairs: J. Hyett (Australia); N. Okun (Canada)

10:45	MoM-based approach to non-invasive prenatal testing using exponentially weighted moving average chart and chromosomal fingerprint <i>M. Hynek; F. Zembol; I. Maresova; S. Horackova; M. Putzova; D. Stejskal (Czech Republic)</i>	OC05.01
10:50	Discussion	

10:53	Utility of first trimester ultrasound in the setting of NIPT incorporation into practice: a retrospective interim review <i>L. Platt; R. Rao; C. Han; N. Silverman (United States)</i>	OC05.02
10:58	Discussion	
11:01	Preliminary results of contingent first trimester screening for Trisomy 21 with non-invasive prenatal testing in a Danish cohort <i>C. Miltoft; L. Rode; C. Ekelund; K. Sundberg; S. Kjærsgaard; H. Zingenberg; A. Tabor (Denmark)</i>	OC05.03
11:06	Discussion	
11:09	Characteristics of first trimester screening non-responders in a high uptake population <i>H. Wolf; C. Wulff; C. Ekelund; K. Sundberg; A. Tabor (Denmark)</i>	OC05.04
11:14	Discussion	
11:17	Increased fluid in the posterior fossa in the first trimester and fetal outcome <i>B. Muto; E. Contro; T. Fanelli; G. Rembouskos; G. Pilu; P. Volpe (Italy)</i>	OC05.05
11:22	Discussion	
11:25	Is the NT scan only a risk assessment for chromosomal anomaly, or also a first trimester anomaly scan? <i>M. Bech; J. Sørensen; O. Petersen (Denmark)</i>	OC05.06
11:30	Discussion	
11:33	Pathologic copy number variations (CNVs) in fetuses with a normal karyotype: does the indication for testing matter? <i>E. Bornstein; S. Berger; S. Cheung; K. Maliszewski; C. Bacino; A. Patel; A. Beaudet; M. Divon (United States)</i>	OC05.07
11:38	Discussion	
11:41	ROLE PLAY: Counselling a couple for NIPT <i>L. Platt (United States); S. Cooper (Canada); J. Hyett, (Australia)</i>	

10:45 - 12:05 Fetal neurosonography Room 520

Chairs: I. Timor-Tritsch (United States); G. Malinger (Israel)

10:45	LIVE SCAN: multiplanar neurosonography in practice [industry supported*] <i>L. Guibaud (France)</i>	
11:05	Development of optic chiasm: a 2D coronal ultrasound study between 20–30 weeks gestation <i>F. Viñals¹; P. Ruiz²; F. Correa³; P. Gonçalves-Pereira³ (Chile); ²(Spain); ³(Portugal)</i>	OC06.01
11:10	Discussion	
11:13	Increasing size of the cavum septi pellucidi: sign of midline anomalies of the fetal brain <i>M. Herrera; M. Rebolledo; J. Arenas (Colombia)</i>	OC06.02
11:18	Discussion	
11:21	Constructive averaging improves motion-induced signal loss in fetal brain magnetic resonance spectroscopy (MRS) <i>A.N. Shetty; R. Gabr; D. Rendon; C. Cassidy; A. Mehollin-Ray; W. Lee (United States)</i>	OC06.03
11:26	Discussion	

11:29	Spina bifida: prenatal diagnosis, natural history and outcome in 213 cases: experience of a single third-level centre <i>L. Masini; G. Noia; M. De Santis; C. Rendeli; M. Caldarelli; L. Massimi; G. Tamburrini; C. Di Rocco; A. Caruso (Italy)</i>	OC06.04
11:34	Discussion	
11:37	Sonographic visualisation of neural tube defects in over 300 cases of embryonic demise <i>D.R. Hartge; M. Gembicki; J. Weichert (Germany)</i>	OC06.05
11:42	Discussion	
11:45	Vein of Galen aneurysm: analysis of perinatal determinants of prognosis in a single centre series of 19 cases <i>D. Paladini; S. Buratti; C. Martinetti; G. Tuo; M. Marasini; E. Lampugnani; G. Donarini; C. Gandolfo; A. Rossi (Italy)</i>	OC06.06
11:50	Discussion	
11:53	Approach to the sonographic evaluation of fetal ventriculomegaly at 11 to 14 weeks gestation <i>G. Manegold-Brauer^{1,2}; A. Oseledchik¹; A. Flöck¹; C. Berg¹ U. Gembruch¹; A. Geipel¹ (Germany); ²(Switzerland)</i>	OC06.07
11:58	Discussion	

10:45 - 12:05 Ultrasound in oncology Room 524

Chairs: L. Valentin (Sweden); D. Fischerová (Czech Republic)

10:45	How and when to use ultrasound guided Trucut biopsies in gynecological oncology <i>D. Fischerová (Czech Republic)</i>	
11:05	The International Endometrial Tumor Analysis (IETA) study: interim analysis of measurement differences between centres <i>L. Wynants¹; A. Installé¹; M. Pascual³; F. Leone⁴; P. Sladkevicius⁵; J.L. Alcázar³; L. Valentin⁵; E. Epstein⁵; B. De Moor¹; S. Van Huffel¹; B. Van Calster¹; T. Bourne²; D. Timmerman¹; T. Van den Bosch¹ (Belgium); ²(United Kingdom); ³(Spain); ⁴(Italy); ⁵(Sweden)</i>	OC07.01
11:10	Discussion	
11:13	A trial of preoperative diagnosis of uterine sarcoma using tumor signal intensity at magnetic resonance imaging (MRI) <i>Y. Oka; S. Makinoda (Japan)</i>	OC07.02
11:18	Discussion	
11:21	Intra- and interobserver reproducibility with regard to describing ultrasound images of the endometrium using IETA terminology <i>L. Valentin⁴; P. Sladkevicius⁴; D. Timmerman¹; T. Van den Bosch¹; B. Benacerraf³; L. Jokubkiene⁴; A. Di Legge²; A. Votino¹; L. Zannoni²; A. Installé¹ (Belgium); ²(Italy); ³(United States); ⁴(Sweden)</i>	OC07.03
11:26	Discussion	
11:29	Transvaginal/transrectal ultrasound for assessing myometrial infiltration in endometrial cancer: a comparison of six different approaches <i>J.L. Alcázar; L. Pineda; T. Martinez-Astorquiza Corral; R. Orozco; L. Juez; J. Utrilla-Layna; J. Minguez; M. Jurado (Spain)</i>	OC07.04
11:34	Discussion	

11:37	Application of 3D ultrasound in the assessment of dose-dense NACT efficacy in patients with cervical cancer <i>V. Chiappa; G. Bogani; D. Lorusso; A. Ditto; F. Martinelli; F. Raspagliesi (Italy)</i>	OC07.05
11:42	Discussion	
11:45	Ultrasound accuracy in prediction of pelvic carcinomatosis and rectosigmoid involvement in advanced ovarian cancer patients <i>M. Zikan; D. Fischerová; D. Cibula (Czech Republic)</i>	OC07.06
11:50	Discussion	
11:53	^{YI} Sonomorphological and Doppler pattern of extra-gastrointestinal stromal tumors (e-GISTs): a multicentre retrospective study <i>A.M. Dueckelmann¹; D. Franchi²; L. Savelli³; J.L. Alcázar³; E. Epstein⁴; D. Fischerová² ¹(Germany); ²(Czech Republic); ³(Italy); ⁴(Sweden); ⁵(Spain)</i>	OC07.07
11:58	Discussion	
12:10 - 12:50 Short oral presentations (OP)		
	OP05: First trimester ultrasound: beyond NT	Room 517D
	<i>Chairs: A. Tabor (Denmark); A. Ngu (Australia)</i>	
	OP06: Fetal brain imaging	Room 520
	<i>Chairs: G. Pilu (Italy); A. Toi (Canada)</i>	
	OP07: The use of ultrasound in oncology	Room 524
	<i>Chairs: D. Jurkovic (United Kingdom); J. Preisler (United Kingdom)</i>	
	OP08: Simulation, quality and safety	Room 518
	<i>Chairs: C. Lees (United Kingdom); C. Brezinka (Austria)</i>	
12:45 - 14:20 Lunch and e-poster viewing (EP)		
12:55 - 13:15 Poster discussion Hubs (P) Room 517C		
	P05: Predicting adverse outcomes in pregnancy	Hub 1
	<i>Chair: J. Copel (United States)</i>	
	P06: Fetal heart function	Hub 2
	<i>Chair: H. Gardiner (United States)</i>	
	P07: Case reports: twins and interventions	Hub 3
	<i>Chair: A. Gagnon (Canada)</i>	
12:55 - 13:25 Just images: reproductive medicine; examples and classic cases Hub 4		
	<i>S. Campbell (United Kingdom); W. Martins (Brazil)</i>	
13:15 - 14:15 Industry sponsored satellite symposium**		
13:30 - 14:00 Meet the Professor Hubs Room 517C		
	How to keep your editor happy	Hub 1
	<i>B. Thilaganathan (United Kingdom)</i>	
	Just images: head and heart; examples and classic cases	Hub 2
	<i>G. DeVore (United States)</i>	

^{YI} This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).

** 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 126 for our satellite program.

Roundtable on standards for fetal growth	Hub 3
<i>A. Papageorgiou (United Kingdom); L. Platt (United States); S. Yagel (Israel)</i>	
Just images: using 3D ultrasound for gynecological scans	Hub 4
<i>B. Benacerraf (United States)</i>	

14:20 - 15:40 Workshop: Commonly missed cardiac anomalies Room 517D

Chairs: J. Copel (United States); J. Fouron (Canada)

14:20	Coarctation of the aorta <i>H. Gardiner (United States)</i>
14:35	Double outlet right ventricle <i>J. Rychik (United States)</i>
14:50	Anomalous pulmonary venous return <i>R. Chaoui (Germany)</i>
15:05	Transposition of great arteries <i>A. Abuhamad (United States)</i>
15:20	Faculty discussion

14:20 - 15:40 Workshop: Counselling for brain abnormalities: anatomy to clinical application Room 520

Chairs: D. Pugash (Canada); A. Toi (Canada)

14:20	Core anatomy and transient aspects of brain development <i>D. Pugash (Canada)</i>
14:40	Corpus callosum and midline development <i>G. Malinger (Israel)</i>
15:00	Imaging the posterior fossa <i>G. Pilu (Italy)</i>
15:20	Challenges in counselling for borderline CNS anomalies <i>D. Pugash (Canada); A. Toi (Canada); G. Pilu (Italy); G. Malinger (Israel)</i>

14:20 - 15:40 Workshop: Management of growth restriction Room 524

Chairs: C. Lees (United Kingdom); T. Kiserud (Norway)

14:20	Early onset IUGR <i>C. Lees (United Kingdom)</i>
14:40	Late onset IUGR: identification and management <i>F. Figueras (Spain)</i>
15:00	Impact of IUGR on brain development: lessons from MRI <i>M. Sanz Cortes (United States)</i>
15:20	DEBATE: redistribution is not brain sparing For <i>E. Hernandez-Andrade (United States)</i> Against <i>T. Kiserud (Norway)</i>
15:30	Discussion

14:20 - 15:40 Workshop: Lessons from the International Ovarian Tumor Analysis (IOTA) study on classifying ovarian masses Room 518

Chairs: T. Bourne (United Kingdom); A. Testa (Italy)

14:20	Pattern recognition and descriptors to classify ovarian masses: introducing a three-step strategy <i>T. Bourne (United Kingdom)</i>
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14:35	The practical use of IOTA simple rules to classify ovarian masses <i>L. Valentin (Sweden)</i>	
14:50	Using the IOTA ADNEX prediction model to classify masses as benign, borderline, metastatic or primary malignant <i>D. Timmerman (Belgium)</i>	
15:05	Can the IOTA approach be integrated into protocols in the United States: should we update the ACR criteria? <i>S. Goldstein (United States)</i>	
15:20	Discussion about possible new North American guidance	
14:20 - 17:30	Simulation workshops (pre-event booking required)	Room 517C
	ISUOG basic training <i>T. Chudleigh (United Kingdom)</i>	Hub 1
	Simulation for ultrasound in labour <i>T. Ghi (Italy)</i>	Hub 2
	Hands-on simulation for ultrasound-guided needle procedures in obstetrics <i>B. Brost (United States)</i>	Hub 3
15:40 - 16:10	Coffee and e-poster viewing (EP)	
16:10 - 17:30	Complications in twins	Room 517D
	Chairs: B. Thilaganathan (United Kingdom); M. Bebbington (United States)	
16:10	Dichorionic diamniotic twin pregnancy after single blastocyst embryo transfer is a more common finding than we thought: a single centre's 8-year experience <i>T. Murakoshi; K. Miura; M. Wagata; T. Yokouchi; T. Mishima; S. Shiojima; T. Shinno; M. Matsushita; M. Matsumoto; H. Masuzaki; Y. Torii (Japan)</i>	OC08.01
16:15	Discussion	
16:18	The significance of chorionicity on long-term outcome of low birthweight infants of less than 1,500 grams in twin pregnancies <i>H. Kawamura; K. Ishii; N. Yonetani; A. Mabuchi; S. Hayashi; N. Mitsuda (Japan)</i>	OC08.02
16:23	Discussion	
16:26	Feasibility and perinatal outcomes of laser surgery for monochorionic twin gestation with selective intrauterine growth restriction <i>K. Ishii; M. Nakata; S. Wada; T. Murakoshi; H. Sago (Japan)</i>	OC08.03
16:31	Discussion	
16:34	The use of aortic displacement as a surrogate for intertwin pulse pressure differences in monochorionic pregnancies with and without TTTS <i>C. Wohlmuth^{1,2}; F. Osei¹; K. Moise¹; A. Johnson¹; R. Papanna¹; M. Bebbington¹; H. Gardiner¹ (United States); ²(Austria)</i>	OC08.04
16:39	Discussion	
16:42	Are serial MRIs of any value in the assessment of cerebral ischemic injury following co-twin demise? <i>A. Morency; S. Blaser; J. Keunen; R. Windrim; G. Seaward; G. Ryan (Canada)</i>	OC08.05
16:46	Is neurosonography predictive of MRI findings after co-twin demise in monochorionic pregnancies? <i>A. Morency; S. Blaser; A. Robinson; J. Keunen; R. Windrim; G. Ryan (Canada)</i>	OC08.06
16:50	Discussion	

16:53	Fetal brain abnormalities in twin pregnancies complicated by Twin-twin transfusion syndrome: systematic review and meta-analysis <i>A. Khalil; R. Townsend; N. Khan; A. Papageorgiou; A. Bhide; B. Thilaganathan (United Kingdom)</i>	OC08.07
16:58	Discussion	
17:01	TTTS outcomes: short- and long-term outcomes <i>K. Hecher (Germany)</i>	
17:21	Discussion	

16:10 - 17:30 Urogynecology Room 520

	Chairs: V. Eisenberg (Israel); S. Yagel (Israel)	
16:10	VIDEO DEMONSTRATION: evaluating the pelvic floor in practice <i>H.P. Dietz (Australia)</i>	
16:30	Obstetric anal sphincter injuries (OASIS) grade 3A: are they as innocent as we think? <i>V.H. Eisenberg; Y. Avidan; G. Bitman; R. Achiron; E. Schiff; M. Alcalay (Israel)</i>	OC09.01
16:35	Discussion	
16:38	Detection of ureter fistulas using the "pumping probe technique" and subsequent treatment with a covered self-expanding and sealing ureteral stent <i>J. Neymeyer; A. Weintraub; A. Weichert (Germany)</i>	OC09.02
16:43	Discussion	
16:46	Does pelvic organ support deteriorate in the years following a first birth? <i>C. Wanderley Ferreira; I. Kamisan Atan; S. Langer; H.P. Dietz (Australia)</i>	OC09.03
16:51	Discussion	
16:54	Antenatal pelvic floor biometry associated with levator ani muscle injury in primiparous women <i>S.S. Chan; R. Cheung (Hong Kong)</i>	OC09.04
16:59	Discussion	
17:02	Evaluation of the anal sphincter in women with obstetric anal sphincter injuries. Comparison between transperineal and endoanal ultrasound techniques <i>C. Ros¹; E. Martinez¹; M. Wozniak²; N. Elias¹; M. Lopez¹; M. Palacio¹; A. Wieczorek²; M. Espuña¹ ¹(Spain); ²(Poland)</i>	OC09.05
17:07	Discussion	
17:10	Does levator ani muscle injury associate with successful fitting of vaginal pessary in women with pelvic organ prolapse? <i>R. Cheung; S. Chan (Hong Kong)</i>	OC09.06
17:15	Discussion	
17:18	Incidence of levator ani muscle injury occurred after a second delivery in Chinese women <i>R. Cheung; S. Chan (Hong Kong)</i>	OC09.07
17:23	Discussion	
17:26	Correlation between palpation, manometry and ultrasound measurements for assessment of pelvic floor muscle contractility <i>I. Volloyhaug; S. Morkved; K. Salvesen (Norway)</i>	OC09.08
17:31	Discussion	

16:10 - 17:30	Brain sparing in IUGR: protective or harmful?	Room 524
	Chairs: A. Baschat (United States); J. Kingdom (Canada)	
16:10	Physiological adaptation in IUGR <i>A. Baschat (United States)</i>	
16:30	Is fetal cerebroplacental ratio associated with deterioration of placental function? <i>A. Khalil; J. Morales-Roselló; R. Townsend; M. Carvalho Afonso; A. Bhide; A. Papageorgiou; B. Thilaganathan (United Kingdom)</i>	OC10.01
16:35	Discussion	
16:38	Frontal lobe brain sparing in fetuses affected by late onset fetal growth restriction demonstrated by three dimensional power Doppler angiography <i>A. Rossi; I. Romanello; G. Filip; J. Mauro; L. Forzano; D. Marchesoni (Italy)</i>	OC10.02
16:43	Discussion	
16:46	Assessment of intracranial structure volumes in growth restriction fetuses by means of 3D ultrasound using XI VOCAL method <i>A.R. Caetano; A. Zamarian; R. Cavalcante; T. Helfer; N. Melo; E. Araujo Junior; L. Nardoza; A. Moron (Brazil)</i>	OC10.03
16:51	Discussion	
16:54	Brain metabolic differences assessed by MR Spectroscopy in neonates born at term small-for-gestational-age and with intrauterine growth restriction <i>M. Sanz Cortes; R. Simoes; N. Bargallo; F. Figueras; E. Gratacós (Spain)</i>	OC10.04
16:59	Discussion	
17:02	Developmental origin of adult disease (Rats to brats) <i>A. Nuyt (Canada)</i>	
17:22	Discussion	

OP - Monday 12 October 2015

OP01: Pre-eclampsia: prediction, prevention, effects

Room 517D

Chairs: *T. Kiserud (Norway); J. Johnson (Canada)*

- Development of a prediction model for pre-eclampsia using clinical biophysical and biochemical markers in a Chinese population OP01.01
T. Leung (China)
- First trimester screening of circulating C19MC microRNAs can predict subsequent onset of gestational hypertension OP01.02
L. Hromadnikova (Czech Republic)
- Comparison of 80 vs. 160mg of aspirin in pregnant women with previous history of pre-eclampsia: a randomised controlled trial OP01.03
S. Tapp (Canada)
- Second trimester prediction of placental disease versus pre-eclampsia-SGA outcomes in nulliparous women OP01.04
R. Windrim (Canada)
- Cardiovascular and cerebrovascular - disease associated microRNAs are dysregulated in placental tissues affected with pre-eclampsia and intrauterine growth restriction OP01.05
L. Hromadnikova (Czech Republic)
- Hemodynamic changes in the central nervous system, detected by ophthalmic artery Doppler, in pregnant women with chronic hypertension OP01.06
A.D. Diniz (Brazil)
- Is there normalisation of cerebrovascular Doppler parameters in postpartum pre-eclamptic women? An ophthalmic artery Doppler evaluation OP01.07
A.D. Diniz (Brazil)

OP02: Functional analysis of the fetal heart

Room 520

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

- Congenital heart disease variability in mechanisms of altered oxygen delivery influence vascular resistances in the fetus OP02.01
J. Rychik (United States)
- Quantitative comparison of cardiac performance index derived from a novel automatic method and traditional technique in normal fetuses OP02.02
B.W. Zhao (China)
- Evaluating fetal tricuspid and mitral annular plane systolic excursion (TAPSE and MAPSE) using spatiotemporal image correlation (STIC) M-mode OP02.03
A.W. Welsh (Australia)
- Applications of z-scores of mitral-tricuspid valve distance in screening of fetal Ebstein anomaly OP02.04
B.W. Zhao (China)
- 2D speckle-tracking echocardiography in intrauterine growth restricted fetuses OP02.05
F. Fuchs (France)
- Withdrawn OP02.06
- Quantitative study of the distance between the left atrial posterior wall and the descending aorta in four chamber view of the fetal heart OP02.07
B.W. Zhao (China)
- New automatic analysis of tissue Doppler traces for a simplified assessment of fetal cardiac function OP02.08
L. Herling (Sweden)
- Effects of persistent left superior vena cava connected with coronary sinus on fetal cardiac structure and hemodynamics OP02.09
Y. He (China)

OP03: Evaluating ovarian pathology**Room 524****Chairs: D. Timmerman (Belgium); J. Preisler (United Kingdom)**

- Elastographic features of ovarian dermoid cysts OP03.01
S. Ferrero (Italy)
- Role of logistic regression model 2 and risk of malignancy index RMI-IV in the preoperative assessment of adnexal masses OP03.02
N. Abdalla (Poland)
- Comparison of imaging features of adnexal cystic masses between 3D and 2D CEUS and general gray ultrasonography OP03.03
R. Hu (China)
- Ultrasound features for determining the risk of malignancy in unilocular-solid adnexal masses in premenopausal women without ascites and/or carcinomatosis OP03.04
J.L. Alcázar (Spain)
- Comparison of the diagnostic value of risk of malignancy index RMI-I with logistic regression model 1 and RMI-IV with logistic regression models in the preoperative assessment of adnexal masses & OP03.06
N. Abdalla (Poland)
- Borderline ovarian tumors and frozen section: role of preoperative He4 and R.O.M.A. score to increase frozen section accuracy OP03.07
S. Gizzo (Italy)
- Comparison of the diagnostic performance of risk of malignancy index RMI-III and simple rules in the preoperative assessment of adnexal masses OP03.08
N. Abdalla (Poland)

OP04: Twin pregnancy**Room 518****Chairs: Y. Ville (France); G. Yeo (Singapore)**

- Withdrawn OP04.01
- Cervical length and cervical infection as predictors of success of laser therapy in Twin-twin transfusion syndrome (TTTS) OP04.02
B.G. Hollwitz (Germany)
- Mid-pregnancy cervical length as a risk factor for Caesarean delivery in twin pregnant women OP04.03
S. Sung (Republic of Korea)
- Fetal growth patterns in twin pregnancies OP04.04
N. Melamed (Canada)
- Outcomes in discordant twin pregnancies whose twin B is larger than twin A according to the mode of delivery OP04.05
S. Oh (Republic of Korea)
- The myocardial performance index (MPI) intertwin difference (ITD) in mono chorionic diamniotic twin pregnancies OP04.06
A. Henry (Australia)
- Myocardial Performance Index (MPI) in stage 1 versus stage 2-3 twin-twin transfusion syndrome OP04.07
A. Henry (Australia)
- Outcome of mono chorionic twin pregnancies with moderate amniotic fluid discordance without twin-twin transfusion syndrome OP04.08
A. Anami (Japan)
- What is the likelihood of spontaneous change of fetal presentation following third trimester ultrasound in twin pregnancies? OP04.09
N. Melamed (Canada)
- Fetal neuroprotective responses to severe hypoxic stress in ovine twin fetuses: amino acid neurotransmitters compared to cerebral circulation OP04.10
S. Gruessner (Germany)

OP05: First trimester ultrasound: beyond NT**Room 517D****Chairs: A. Tabor (Denmark); A. Ngu (Australia)**

- Only seeing what you look for: use of a detailed ultrasound protocol is associated with increased anomaly detection rates in the first trimester
J. Karim (United Kingdom) OP05.01
- Fetal kidneys' ultrasound appearance in the first trimester
S. Tudorache (Romania) OP05.02
- Accuracy of fetal gender assessment at 11–14 weeks gestation in low risk population
D. Nemescu (Romania) OP05.03
- Non-invasive diagnosis of RhD status and fetal gender from maternal plasma: our results from years 2008 to 2014
P. Calda (Czech Republic) OP05.04
- Counselling patients with positive noninvasive prenatal screens: how maternal age and ultrasound findings impact positive predictive values
P. Taneja (United States) OP05.05
- Tricuspid regurgitation in Down's syndrome fetuses: a systematic review
S. Ferrero (Italy) OP05.06
- Modelling isolated spina bifida screening performance using axial and sagittal views of the brain and spine anatomy at the 11–13-week scan
S. Tudorache (Romania) OP05.07
- Withdrawn OP05.08
- Does underestimating nuchal translucency measurement impact sensitivity of Down's syndrome screening?
M. Dommergues (France) OP05.09
- Sex chromosome aneuploidy: pregnancy outcomes for patients with a positive screen
I. Goldfarb (United States) OP05.10

OP06: Fetal brain imaging**Room 520****Chairs: G. Pilu (Italy); A. Toi (Canada)**

- Prenatal ultrasound screening for single-suture craniosynostosis
T.E. Cohen-Overbeek (Netherlands) OP06.01
- Second trimester visualisation of a thick corpus callosum can be a transient finding of uncertain significance
J. Har-Toov (Israel) OP06.02
- Prenatal diagnosis of central nervous system anomalies by high-resolution chromosomal microarray analysis
Q. Wu (China) OP06.03
- Prenatal imaging cerebral pattern of Cobblestone lissencephaly according to gestational age and imaging modalities (US, MRI)
L. Guibaud (France) OP06.04
- Which level of spinal defect delineated by fetal MRI has prognostic importance in Arnold Chiari Type II?
S. Guven (Turkey) OP06.05
- Prenatal diagnosis of cerebellar hypoplasia
G. Malingier (Israel) OP06.06
- Withdrawn OP06.07
- Antenatal brain abnormalities in fetuses with congenital heart defects: systematic review and meta-analysis
A. Khalil (United Kingdom) OP06.08
- Prenatal neurodevelopmental characteristics in isolated major congenital heart defects: a systematic review and meta-analysis
M.C. Haak (Netherlands) OP06.09

OP07: The use of ultrasound in oncology

Room 524

Chairs: D. Jurkovic (United Kingdom); J. Preisler (United Kingdom)

Ultrasound characteristics of serous borderline ovarian tumors, non-invasive low-grade, invasive low-grade and high-grade serous carcinomas	OP07.01
<u>A.C. Testa (Italy)</u>	
The first stage update: ultrasound-based prediction model for persistent gestational trophoblastic neoplasia from women with hydatidiform mole	OP07.02
<u>J. Qin (China)</u>	
Ultrasound characteristics of a symptomatic and asymptomatic lymphocele after pelvic and/or paraaortic lymphadenectomy	OP07.03
<u>M. Zikan (Czech Republic)</u>	
Power Doppler ultrasonography as functional assessment instrument response to chemotherapy in breast cancer	OP07.04
<u>A.D. Diniz (Brazil)</u>	
The role of transvaginal ultrasound in the workup of invasive molar disease	OP07.05
<u>V. Chiappa (Italy)</u>	
Analysis of the diagnostic value of ADNEX and LR1-2 models, CA125, HE4 and risk of malignancy algorithm in the presurgical assessment of adnexal masses	OP07.06 & OP07.07
<u>N. Abdalla (Poland)</u>	
A preliminary comparison of the IOTA simple rules with the risk of malignancy index RMI-2 for the evaluation of adnexal masses within a Canadian tertiary care centre	OP07.08
<u>F. Moretti (Canada)</u>	
A comparison of risk of malignancy index (RMI-2) with subjective sonographic assessment of adnexal masses	OP07.09
<u>F. Moretti (Canada)</u>	
Transvaginal ultrasound for preoperative assessment of myometrial invasion in patients with endometrial cancer: a systematic review and meta-analysis	OP07.10
<u>J.L. Alcázar (Spain)</u>	

OP08: Simulation, quality and safety

Room 518

Chairs: C. Lees (United Kingdom); C. Brezinka (Austria)

Randomised clinical trial of virtual reality simulation training for gynecological transvaginal ultrasound skills	OP08.01
<u>M. Dommergues (France)</u>	
Self-assessment of fetal ultrasound biometry images trial (SAVE US)	OP08.02
<u>M. Dommergues (France)</u>	
Assessing the learning curves of ultrasound skill acquisition in obstetrics and gynecology: a randomised control trial	OP08.03
<u>A. Alsalamah (United Kingdom)</u>	
Validation of a virtual reality simulator for the use of transvaginal ultrasonography in gynecology and early pregnancy	OP08.04
<u>S. Saso (United Kingdom)</u>	
Can ultrasound cause harm? Survey of ultrasound users in the UK of the safety aspects of ultrasound: a pilot study in 2 hospitals	OP08.05
<u>T. Indrielle (United Kingdom)</u>	
Thermal index for bone for diagnostic scanners: actual ranges of ultrasound intensity measured <i>in vitro</i>	OP08.06
<u>K. Retz (Norway)</u>	
Non-medical fetal sex determination in Denmark: a study on ultrasound practice and quality	OP08.07
<u>G. Størup (Denmark)</u>	
Girls are at greater risk of post-term birth than indicated by ultrasound-based estimation of gestational length in second trimester	OP08.08
<u>J.D. Wesström (Sweden)</u>	
Image auditing of the 20 week anomaly scan in the southwest region of the Netherlands improves scanning quality	OP08.09
<u>T.E. Cohen-Overbeek (Netherlands)</u>	
Comparison of microbial contamination of transabdominal versus transvaginal transducers	OP08.10
<u>S.C. Westerway (Australia)</u>	

P - Monday 12 October 2015

P01: Delivery prediction throughout the trimesters

Room 517C (Hub 1)

Chair: L. Platt (United States)

- Implementation of a universal protocol for screening and medical intervention for preterm delivery at anatomy scan: experience from first 18 months P01.01
C.M. Igel (United States)
- Maternal characteristics associated with an asymptomatic sonographic short cervix in the mid-trimester P01.02
S. Cho (Republic of Korea)
- Assessment of three dimensional power Doppler ultrasound in pregnancies submitted to cerclage and gestational age at delivery P01.03
T.F. Borghi (Brazil)
- Emergency cerclage: evaluation of its efficacy and identification of prognostic factors P01.04
O. Marra (Canada)
- Serial cervical length determination in twin pregnancies reveals four distinct patterns with prognostic significance for preterm birth P01.05
N. Melamed (Canada)
- The effect of antenatal corticosteroids on the fetal thymus P01.06
C.A. Jones (Canada)
- Large head circumference is more strongly associated with unplanned Caesarean delivery than high birthweight P01.07
S. Yagel (Israel)
- Large head circumference versus high birthweight in the risk of instrumental delivery in "big babies" P01.08
S. Yagel (Israel)
- The occiput spine angle: a new sonographic index of fetal head deflexion during the first stage of labour P01.09
T. Ghi (Italy)
- Automatic measurement of angle of progression: a feasibility study P01.10
A. Youssef (Italy)

P02: First trimester screening

Room 517C (Hub 2)

Chair: C. Bilardo (Netherlands)

- The outcome of fetuses with high (>4.0 MoMs) first-trimester free beta-hCG levels P02.01
A. Sotiriadis (Greece)
- The use of a high frequency linear transducer in the assessment of fetal anatomy at the routine 11 to 13+6 week scan P02.02
K.Y. Leung (Hong Kong)
- Concurrent first trimester screening and cell free DNA testing for aneuploidy detection P02.03
M. Naqvi (United States)
- Ultrasound features and management in 17 cases of body stalk anomaly P02.04
A. Panaitescu (Romania)
- Impact of first trimester screening on Trisomy 21 detection and incidence of invasive procedures in the years 1994–2013 (population based data) P02.05
P. Calda (Czech Republic)
- Are nuchal septations clinically significant for early prenatal genetics screening? P02.06
J. Espinoza (United States)
- Factors potentially influencing the accuracy of first trimester anomaly scan P02.07
A. Pinto (Italy)
- Pregnancy outcome in fetuses with nuchal translucency above the 95th percentile in a single institution P02.08
Y. Shin (Republic of Korea)

The performance of universal Down's syndrome screening using self-derived prediction model specific for Chinese in Hong Kong P02.09
T.Y. Leung (Hong Kong)

P03: Case reports: fetal growth and placenta

Room 517C (Hub 3)

Chair: C. Brezinka (Austria)

Prenatal diagnosis of intrahepatic porto-systemic shunt in intrauterine growth restricted (IUGR) fetus: a case report P03.01
I. Babic (Canada)
 Four-vessel umbilical cord containing three arteries and one vein P03.02
J. Hoh (Republic of Korea)
 The pregnancy and postnatal outcome in neuromyelitis optica: case study P03.03
M. Jakó (Hungary)
 Abnormal ductus venosus Doppler in a normally grown fetus P03.04
N. Condon (United States)
 Umbilical cord insertion into a central amniotic band: imaging, evolution and outcome P03.05
A. Ouellet (Canada)
 Massive acute fetomaternal hemorrhage: what to expect? P03.06
S. Al-Obaidly (Qatar)
 Favourable outcome in a case of agenesis of ductus venosus and fetal hydrops P03.07
C. Chau (France)
 Placenta previa accreta after previous Caesarean section: correlation of ultrasound images, MRI and histology specimens in a series of cases P03.08
J. Vojtech (Czech Republic)
 Management dilemma of complete placenta previa with Breus' mole P03.09
S. Al-Obaidly (Qatar)
 Venous cervical varix presenting as a late cause of obstetric hemorrhage P03.10
A. Idelson (Israel)
 Imaging and early scoring system in concealed massive obstetric hemorrhage P03.11
F. Ajibade (United Kingdom)

P04: Ultrasound to assess the urogynecology patient

Room 517C (Hub 4)

Chair: V. Eisenberg (Israel)

Pelvic floor muscle trauma are associated with reduced pelvic floor muscle contractility P04.01
I. Volloyhaug (Norway)
 False-negative prolapse assessment is most likely in the central compartment P04.02
H.P. Dietz (Australia)
 Can anal sphincter defects be identified by palpation? P04.03
H.P. Dietz (Australia)
 Levator ani trauma and pelvic organ prolapse: is there a dose-response effect? P04.04
H.P. Dietz (Australia)
 The long-term effect of pregnancy on pelvic floor anatomy P04.05
H.P. Dietz (Australia)
 The effect of fundal pressure (Kristeller manoeuvre) on pelvic floor in primiparous women P04.06
A. Youssef (Italy)
 A low cost, home-made training model 2D/3D characterisation of mesh properties P04.07
A.Y. Weintraub (Germany)
 A comparison between two 3D ultrasound contrast-enhancing techniques for pelvic floor assessment P04.08
A. Youssef (Italy)
 A low cost, home-made training model for MRI-US fusion guided biopsy P04.09
A.Y. Weintraub (Germany)

P05: Predicting adverse outcomes in pregnancy**Room 517C (Hub 1)****Chair: J. Copel (United States)**

- Values of automated uterine volume scanner to predict uterine rupture and dehiscence with scar uterus P05.01
X. Chen (China)
- Quantitative evaluation of postnatal placenta accreta by contrast-enhanced ultrasound P05.02
G. Chen (China)
- Ischemia modified albumin in pregnancy P05.03
A. Rossi (Italy)
- TNF-R1 as a first trimester marker for prediction of pre-eclampsia P05.04
F. da Silva Costa (Australia)
- Reduced placental vascularisation at 12 weeks is associated with a specific cluster of serum proteins P05.05
R. de Heus (Netherlands)
- First trimester FMF algorithm screening for pre-eclampsia applied in a Brazilian population: is the performance good enough? P05.06
G.R. Lobo (Brazil)
- Early pregnancy serum biochemical markers and advanced placental maturation P05.07
R.N. Brown (Canada)
- Second trimester maternal ophthalmic artery Doppler for prediction of pre-eclampsia P05.08
F. da Silva Costa (Australia)
- Maternal characteristic risk factors profile in preterm and term pre-eclampsia P05.09
G.R. Lobo (Brazil)
- A routine tool with far-reaching influence: Australian midwives' views on the use of ultrasound during pregnancy P05.10
K. Edvardsson (Sweden)
- Effective and clinically applicable non-invasive assessment of *KEL1* positive fetuses in *KEL1* negative "K" alloimmunised pregnant women P05.11
M. Lubusky (Czech Republic)
- The independent effect of maternal height and weight on cervical length P05.12
R. Cruz-Martinez (Mexico)
- Selective versus universal third trimester ultrasound (T3US)? Audit of current practice at a metropolitan Australian hospital P05.13
A. Henry (Australia)

P06: Fetal heart function**Room 517C (Hub 2)****Chair: H. Gardiner (United States)**

- Placental related complications in women carrying a fetus with congenital heart disease P06.01
M. Cruz Lemini (Spain)
- Is there a difference in the fetal right myocardial performance index (RMPI) measured from single and dual Doppler images? P06.02
N. Meriki (Saudi Arabia)
- Prediction of pregnancy complication occurrence using fetal cardiac output assessments made by ultrasonography at 20 to 24 weeks of gestation P06.03
J. Lee (Republic of Korea)
- Longitudinal myocardial function of the right ventricle and nuchal translucency P06.04
E. Sinkovskaya (United States)
- Correlation between the Delta-Myocardial Performance Index and aortic isthmus systolic index as markers of unilateral cardiac strain P06.05
A. Henry (Australia)
- Relationship between the waves of venous ductus and congenital heart diseases P06.06
M. Herrera (Colombia)

Multiple fetal echocardiographic parameters for evaluation of fetal left ventricular diastolic function in women with gestational glucose metabolic abnormalities <i>B.W. Zhao (China)</i>	P06.07
The application of z-scores in the diagnosis of fetal aortic stenosis <i>B.W. Zhao (China)</i>	P06.08
Adaptation of cardiac function in the fetuses with complete atrioventricular block <i>Y. Yamamoto (Japan)</i>	P06.09
Myocardial function in hydropic fetuses at the time of diagnosis <i>R. Axt-Fliedner (Germany)</i>	P06.10
The postural changes of cardiac function in fetus <i>H. Jin (Republic of Korea)</i>	P06.11
Differential diagnosis of congenital heart diseases in fetuses with dilated coronary sinus <i>K. Yoshikoshi (Japan)</i>	P06.12

P07: Case reports: twins and interventions

Room 517C (Hub 3)

Chair: A. Gagnon (Canada)

Myocardial performance index (MPI) as a warning sign of fetal demise in an MCDA twin pregnancy? <i>A. Henry (Australia)</i>	P07.01
Alternative approach for <i>in utero</i> placement of a vesicoamniotic shunt in a case of fetal gastroschisis and lower urinary tract obstruction <i>A. Faksh (United States)</i>	P07.02
The illusion of safety in type 1 selective IUGR in monochorionic twins: are we monitoring the right baby with the right tools? Case report <i>D.A. Pedreira (Brazil)</i>	P07.03
Multiple arterial calcifications after fetoscopic laser treatment for TTTS <i>F. Fuchs (France)</i>	P07.04
Twin–twin transfusion syndrome in patients with suspected shared umbilical cord insertion into the placenta <i>Y. Sato (Japan)</i>	P07.05
A case report: combined ovarian and intrauterine pregnancy progressed to a full-term delivery <i>L. Xie (China)</i>	P07.06
Twin anemia-polycythemia sequence changed to twin–twin transfusion syndrome <i>T. Yokouchi (Japan)</i>	P07.07
Fetoscopic balloon tracheal dilatation for CHAOS <i>G. Ryan (Canada)</i>	P07.08
Single fetal pole version to optimise fetal position pre-hysterotomy for <i>in utero</i> surgical repair of a meningomyelocele <i>E. Codsí (United States)</i>	P07.09
Successful fetal sclerotherapy for a large hydropic CCAM <i>A. Morency (Canada)</i>	P07.10
Spontaneous uterine rupture at 23 weeks' gestation with immediate closure of the uterine wall allowed prolongation of pregnancy <i>L. Leduc (Canada)</i>	P07.11
Uterine artery pseudoaneurysm in secondary postpartum hemorrhage: diagnosis with real-time and pulsed Doppler ultrasound <i>R.I. Amir (Indonesia)</i>	P07.12

Program - Tuesday 13 October 2015

07:30 - 08:10	Masterclasses	
08:15 - 09:35	Parallel sessions (OC)	
	New imaging technologies	517D
	Congenital heart disease	520
	Assessing women with abnormal bleeding	524
09:40 - 10:20	Short oral presentations (OP)	
	New imaging technologies	517D
	Delivery prediction throughout the trimesters	520
	Investigating abnormal bleeding and uterine pathology	524
	Too many chromosomes, too much water	518
10:20 - 10:40	Poster discussion Hubs (P)	517C
10:45 - 12:05	Parallel sessions (OC)	
	Invasive fetal therapy and diagnosis	517D
	Early IUGR	520
	Pelvic pain and endometriosis	524
12:10 - 12:50	Short oral presentations (OP)	
	Fetal interventions	517D
	Fetal growth and predicting IUGR	520
	Evaluating women with pelvic pain	524
	Caesarean section scars and abnormal placental implantation	518
12:55 - 13:15	Poster discussion (P) and Just Images Hubs	517C
13:15 - 14:15	Industry sponsored satellite symposium	517D
13:30 - 14:00	ISUOG guidelines	517C
14:20 - 15:40	Workshops	
	Controversies in the management of selective fetal growth restriction in twin pregnancy	517D
	Changing expectations: the 11–14 week routine anomaly scan	520
	Looking after women with bleeding, pain or other problems in early pregnancy (ectopic pregnancy, miscarriage and PUL)	524
	How important is the evaluation of the placenta?	518
14:20 - 15:40	ISUOG Outreach workshop	517C
16:10 - 17:30	Special Interest Groups	517C
16:10 - 17:35	Parallel sessions (OC)	
	Congenital infections	517D
	Fetal interventions in twins	520
	Early pregnancy complications	524

ISUOG Outreach ...have your say!



Over the past 5 years, ISUOG's Outreach model has been applied in 16 projects in 6 countries. As we plan for the future we want to hear from you! How should ISUOG contribute to the improvement of women's health in under-served regions?

Join us for the ISUOG Outreach Workshop:

Tuesday 13 October 2015, 14:30 - 15:35 Hub 517C

Chairs: A. Johnson, Chair, ISUOG Outreach Committee (USA)

Facilitators: A. Abuhamad (USA), T. Cohen-Overbeek (The Netherlands), S. Eik-Nes (Norway), H. Feltovich (USA), T. Kiserud (Norway), A. Tabor (Denmark) and J. Hyett (Australia)

Topic 1: Mind mapping Outreach: what clinical pathways are impacted by ultrasound training?

Topic 2: Finalising a teaching template for Outreach: how and what do we need to deliver?

Topic 3: Understanding your needs: the role of ISUOG in supporting technology in remote settings

Topic 4: Maximizing partnerships: the role of partners in outreach



Volunteer for Outreach:
isuog.org/Outreach/Get_Involved

 **isuog**.org

Program - Tuesday 13 October 2015

07:30 - 08:10		Masterclasses	
		Monitoring intervals and decision for delivery in IUGR <i>A. Baschat (United States)</i>	Room 517D
		Management of complex monochorionic twins <i>Y. Ville (France)</i>	Room 520
		Ultrasound to detect anomalies in the second trimester <i>G. DeVore (United States)</i>	Room 524
		How do I evaluate women with a possible ovarian mass, including recognising the features of less common types of ovarian and tubal pathology? <i>L. Valentin (Sweden)</i>	Room 518
08:15 - 09:35		New imaging technologies	Room 517D
		Chairs: D. Prayer (Austria); C. Cassidy (United States)	
08:15		Fetal hemodynamic assessment by MRI for detecting late-onset intrauterine growth restriction (IUGR) <i>M. Zhu; S. Keating; N. Milligan; R. Windrim; S. Portnoy; J. Sled; C. Macgowan; J. Kingdom; M. Seed (Canada)</i>	OC11.01
08:20		Discussion	
08:23		Fetal limb fat volume: a surrogate marker of body composition <i>C.L. Knight¹; S. Rueda³; M. Ahmed³; K. Edwards³; V. Donadono²; G. Parry¹; F. Puglia³; L. Cheikh Ismail²; J. Villar³; S. Kennedy²; J. Noble³; A. Papageorghiou³ ¹(New Zealand); ²(Italy); ³(United Kingdom)</i>	OC11.02
08:28		Discussion	
08:31		Quantitative blood flow estimation in the human fetus using non-triggered phase contrast magnetic resonance imaging <i>U. Krishnamurthy; W. Feng; P. Jella; L. Yeo; E. Hernandez-Andrade; S. Mody; M. Cabrera; E. Haacke; S. Hassan; R. Romero; J. Neelavalli (United States)</i>	OC11.03
08:36		Discussion	
08:39		Accuracy of MRI in the prenatal diagnosis of the abnormally adherent placenta: comparison with findings at the time of delivery <i>S.L. Laifer-Narin; S. Brejt; S. Zwany; J. Wright; J. Newhouse (United States)</i>	OC11.04
08:44		Discussion	
08:47		Gadolinium chelates: pharmacokinetics during pregnancy <i>B. Deloison; N. Siauve; G. Chalouhi; J. Poupon; C. Olivier; Y. Ville; L. Salomon (France)</i>	OC11.05
08:52		Discussion	
08:55		Diagnostic accuracy of ultrasonography and magnetic resonance imaging for the detection of fetal anomalies: a blinded case-control study <i>L.F. Goncalves; W. Lee; S. Mody; A. Shetty; H. Sangi-Haghighpeykar; R. Romero (United States)</i>	OC11.06
09:00		Discussion	

09:03	Towards automating the ISUOG "Six-Step Basic Ultrasound" scan <i>M.A. Maraci; C. Bridge; J. Noble; C. Aye; M. Molloholli; R. Napolitano; A.T. Papageorgiou (United Kingdom)</i>	OC11.07
09:08	Discussion	
09:11	Estimation of the cerebral metabolic rate of oxygen (CMRO ₂) in the human fetus <i>J. Neelavalli; E. Hernandez-Andrade; B. Yadav; P. Jella; U. Krishnamurthy; L. Yeo; S. Mody; M. Cabrera; E. Haacke; S. Hassan; R. Romero (United States)</i>	OC11.08
09:16	Discussion	
09:19	Functional MRI <i>C. Cassady (France)</i>	

08:15 - 09:35	Congenital heart disease	Room 520
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	Chairs: J. Fouron (Canada); R. Chaoui (Germany)	
08:15	LIVE SCAN: first trimester cardiac scan [industry supported*] <i>R. Chaoui (Germany)</i>	
08:35	Basic heart: feasibility of a simplified routine fetal echocardiography in the first trimester of pregnancy <i>E. Quarello; A. Lafouge; N. Fries; L. Salomon (France)</i>	OC12.01
08:40	Discussion	
08:43	How normal is a 'normal' heart in fetuses with Down's syndrome? <i>B. Adriaanse¹; E. Calkoen¹; M.C. Haak¹; M. Bartelings¹; A. Kolesnik²; C. Niszczota²; J. van Vugt¹; A. Roest¹; N. Blom¹; A. Giffenberger - de Groot¹; M. Jongbloed¹ ¹(Netherlands); ²(Poland)</i>	OC12.02
08:48	Discussion	
08:51	A national survey of fetal congenital heart diseases in China <i>X. Chen; S. Zhao; X. Yang (China)</i>	OC12.03
08:56	Discussion	
08:59	Longitudinal changes of fetal biometries and cerebrovascular hemodynamics in fetuses with congenital heart disease <i>M. Cruz Lemini; A. Ruiz; N. Masoller; M. Sanz Cortes; J. Martinez; Q. Ferrer; O. Sánchez; F. Crispí; O. Gómez; E. Carreras; E. Gratacós; E. Llurba (Spain)</i>	OC12.04
09:04	Discussion	
09:07	Prediction of outcome after fetal diagnosis of Ebstein's anomaly and dysplasia of the tricuspid valve: a single centre experience <i>E. Jaeggi; C. Manlhiot; M. Jaeggi; A. Dragulescu; G. Van Arsdell; D. Wertaschnigg (Canada)</i>	OC12.05
09:12	Discussion	
09:15	Outcome of prenatal ventricular size discrepancy in cases without coarctation <i>A. van Nisselrooij; C. van Velzen; M. Rijlaarsdam; E. Pajkrť; C. Bax; J. Hruda; N. Blom; S. Clur; M.C. Haak (Netherlands)</i>	OC12.06
09:20	Discussion	
09:23	Postmortem cardiac imaging in fetuses and children <i>N. Sebire (United Kingdom)</i>	

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

08:15 - 09:35	Assessing women with abnormal bleeding	Room 524
08:15	Chairs: S. Goldstein (United States); S. Reid (Australia) How to describe endometrial and myometrial findings using ultrasonography <i>T. Van den Bosch (Belgium)</i>	
08:35	Using ultrasound to assess the endometrium of women taking hormone therapy: diagnosing pathology and tailoring treatment <i>S. Goldstein (United States)</i>	
08:55	Sonographic changes of uterine fibroids after 3-month treatment with ulipristal acetate <i>S. Ferrero; A. Racca; I. Erasmo; F. Sozzi; E. Tafi; V. Remorgida; P. Venturini (Italy)</i>	OC13.01
09:00	Discussion	
09:03	^{YI} Endometrial surveillance in tamoxifen users: accuracy of ultrasound versus hysteroscopic investigation: observational longitudinal cohort study <i>S. Gizzo; M. Noventa; A. Vitagliano; M. Quaranta; R. Venturella; T. Patrelli (Italy)</i>	OC13.02
09:08	Discussion	
09:11	Three dimensional power Doppler as predictor for uterine fibroid growth <i>L.L. Nieuwenhuis; J. Twisk; W. Hehenkamp; H. Brolmann; J. Huirne (Netherlands)</i>	OC13.03
09:16	Discussion	
09:19	Prevalence of ultrasound features of adenomyosis in asymptomatic premenopausal women <i>L. Jokubkiene; P. Sladkevicius; L. Valentin (Sweden)</i>	OC13.04
09:24	Discussion	
09:27	^{YI} Assessing uterine graft viability using multispectral imaging during uterine transplantation <i>S. Saso; N. Clancy; B. Jones; M. Al-Memar; T. Bracewell-Milnes; M. Thum; T. Bourne; D. Elson; J. Smith (United Kingdom)</i>	OC13.05
09:32	Discussion	
09:40 - 10:20 Short oral presentations (OP)		
	OP09: New imaging technologies	Room 517D
	<i>Chairs: D. Prayer (Austria); B. Thilaganathan (United Kingdom)</i>	
	OP10: Delivery prediction throughout the trimesters	Room 520
	<i>Chairs: T. Ghi (Italy); J. Crane (Canada)</i>	
	OP11: Investigating abnormal bleeding and uterine pathology	Room 524
	<i>Chairs: T. Van den Bosch (Belgium); P. Glanc (Canada)</i>	
	OP12: Too many chromosomes, too much water	Room 518
	<i>Chairs: A. Gagnon (Canada); K. Fung Kee Fung (Canada)</i>	
10:15 - 10:45 Coffee and e-poster viewing (EP)		

^{YI} This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).

10:20 - 10:40	Poster discussion Hubs (P)	Room 517C
	P08: Diagnosis and management of growth restriction <i>Chair: A. Baschat (United States)</i>	Hub 1
	P09: Fetal echo: functional and anatomical <i>Chair: S. Yagel (Israel)</i>	Hub 2
	P10: Case reports: early pregnancy and gynecology <i>Chair: S. Goldstein (United States)</i>	Hub 3
	P11: Fetal interventions <i>Chair: B. Thilaganathan (United Kingdom)</i>	Hub 4

10:45 - 12:05	Invasive fetal therapy and diagnosis	Room 517D
	Chairs: Y. Ville (France); R. Brown (Canada)	
10:45	Impact of chorionic villus sampling on fetal growth: a case-control study <i>A. Sotiriadis; M. Eleftheriades; E. Assimakopoulos; F. Chatziniolaou; D. Hassiakos; G. Makrydimas (Greece)</i>	OC14.01
10:50	Discussion	
10:53	Middle cerebral artery Doppler in fetuses with red cell alloimmunisation between 34 and 37 weeks' gestation <i>E. Maisonneuve¹; S. Friszer¹; A. Jayot¹; V. Castaigne¹; E. Cynober¹; A. Mailloux¹; F. Pernot¹; J. Jouannic¹; A. Cortey¹; B. Carbone^{2,1} (France); ²(Monaco)</i>	OC14.02
10:58	Discussion	
11:01	Fetoscopic repair of meningocele: watertight duramater closure is not paramount for fetal repair when using a biocellulose graft <i>D.A. Pedreira¹; N. Zanon¹; K. Nishikuni¹; R. Sa¹; G. Acacio¹; R. Chmail²; E. Kontopoulos²; R. Quintero² (Brazil); ²(United States)</i>	OC14.03
11:06	Discussion	
11:09	Quantification of liver herniation in fetuses with isolated congenital diaphragmatic hernia using two-dimensional ultrasonography <i>I.S. Britto¹; N. Sananes²; D. Cass²; I. Zamora²; T. Lee²; O. Olutoye²; A. Mehollin-Ray²; S. Welty²; C. Fernandes²; M. Belfort²; W. Lee²; C. Cassidy²; R. Ruano² (Brazil); ²(United States)</i>	OC14.04
11:14	Discussion	
11:17	Impact of fetal endoscopic tracheal occlusion on postnatal outcome according to the severity of congenital diaphragmatic hernia <i>R. Ruano¹; N. Sananes¹; I. Britto²; J. Mastrobattista¹; M. Silva²; U. Tannun²; M. Zugaib² (United States); ²(Brazil)</i>	OC14.05
11:22	Discussion	
11:25	DEBATE: fetoscopic repair of neural tube defects For: <i>D.A. Pedreira (Brazil)</i> Against: <i>M. Bebbington (United States)</i>	

10:45 - 12:05	Early IUGR	Room 520
10:45	Chairs: C. Bilardo (Netherlands); A. Papageorgiou (United Kingdom) The stage-based management of IUGR <i>E. Gratacós (Spain)</i>	

11:05	Outcome in periviable fetal growth restriction <i>A. Lawin O'Brien¹; A. Dall'Asta A^{2,1}; S. Sankaran¹; C. Knight¹; P. Bruessel¹; S. Heggarty¹; S. Usman¹; A. Rakow¹; C. Lees¹ (United Kingdom); ²(Italy)</i>	OC15.01
11:10	Discussion	
11:13	Management of severe fetal growth restriction before viability: perinatal outcome <i>E. Boot; H. Bijma; M. Bekker; R. de Heus (Netherlands)</i>	OC15.02
11:18	Discussion	
11:21	Management of severe fetal growth restriction before viability: risk of subsequent pre-eclampsia/HELLP <i>H. Bijma; E. Boot; M. Bekker; R. de Heus (Netherlands)</i>	OC15.03
11:26	Discussion	
11:29	^{YI} The Tei index as a sonographic tool for predicting fetal acidosis in intrauterine growth restricted fetuses with placental insufficiency <i>R.T. Bilinski; G. Guirguis; J. Alvarez (United States)</i>	OC15.04
11:34	Discussion	
11:37	Fetal myocardial performance index (MPI) in assessing the small-for-gestational-age (SGA) fetus <i>A. Henry¹; J. Alphonse¹; D. Tynan¹; N. Meriki²; A. Welsh¹ (Australia); ²(Saudi Arabia)</i>	OC15.05
11:42	Discussion	
11:45	Study of nitric oxide level in pre-eclampsia and the effect of nitroglycerine on Doppler changes in fetal and maternal vessels <i>R. El-Said; T. Karkor; M. Elsayway; H. Abdel-Hafez (Egypt)</i>	OC15.06
11:50	Discussion	
11:53	A reduced cerebral placental ratio in fetuses at risk of preterm delivery is associated with neonatal sepsis and necrotising enterocolitis (NEC) <i>E.A. Hernandez-Andrade; H. Ahn; M. Garcia; A. Tarca; H. Saker; L. Yeo; S. Korzeniewski; S. Hassan; R. Romero (United States)</i>	OC15.07
11:58	Discussion	

10:45 - 12:05 Pelvic pain and endometriosis Room 524

Chairs: D. Jurkovic (United Kingdom); B. Benacerraf (United States)

10:45	The features of endometriotic nodules and how to look for them: the Leuven protocol <i>T. Van den Bosch (Belgium)</i>	
11:05	Pain and ultrasonographic appearance of endometriomas may change with age <i>S. Guerriero²; B. Van Calster²; S. Ajossa⁵; W. Froyman²; J.L. Alcázar⁶; B. De Cock²; A. Coosemans²; D. Fischerová¹; C. Van Holsbeke²; A. Testa⁵; L. Valentin³; T. Bourne⁴; D. Timmerman² (Czech Republic); ²(Belgium); ³(Sweden); ⁴(United Kingdom); ⁵(Italy); ⁶(Spain)</i>	OC16.01
11:10	Discussion	
11:13	^{YI} Diagnosis of distal ureteric stones on routine gynecological ultrasound scan in women presenting with pelvic pain <i>T.K. Holland; K. Pateman; J. Knez; G. Derdelis; X. Foo; D. Jurkovic (United Kingdom)</i>	OC16.02
11:18	Discussion	

^{YI} This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).

11:21	Prevalence of pelvic adhesions on ultrasound examination in women with a history of Caesarean section <i>F. Moro; D. Mavrelis; K. Pateman; T. Holland; D. Jurkovic (United Kingdom)</i>	OC16.03
11:26	Discussion	
11:29	Diagnostic accuracy of transvaginal ultrasound for diagnosis of deep endometriosis: systematic review and meta-analysis <i>S. Guerriero¹; J.L. Alcázar²; S. Ajossa¹; R. Orozco²; M. Perniciano¹; J. Minguez²; M. Jurado²; G. Melis¹ (Italy); ²(Spain)</i>	OC16.04
11:34	Discussion	
11:37	Computed tomographic colonography versus transvaginal ultrasonography in the diagnosis of rectosigmoid endometriosis <i>S. Ferrero; A. Racca; F. Sozzi; V. Remorgida; P. Venturini; G. Camerini; V. Vellone; G. Rolland; E. Biscaldi (Italy)</i>	OC16.05
11:42	Discussion	
11:45	The role of bowel preparation prior to ultrasound to detect and assess deep endometriotic nodules on rectal wall <i>C. Ros; M. Martinez-Serrano; M. Rius; M. Martinez-Zamora; J. Balasch; F. Carmona (Spain)</i>	OC16.06
11:50	Discussion	
11:53	Diagnostic performance of two-dimensional ultrasonography, three dimensional ultrasonography and MR in the detection of deep endometriosis <i>S. Guerriero¹; L. Saba¹; M. Perniciano¹; J.L. Alcázar²; M. Pascual²; S. Ajossa¹; A. Cappai¹; A. Piras¹; P. Fabbri¹; F. Pilla¹; F. Mostallino¹; V. Zanda¹; M. Angiolucci¹; V. Mais¹; G. Melis¹ (Italy); ²(Spain)</i>	OC16.07
11:58	Discussion	

12:10 - 12:50 Short oral presentations (OP)

OP13: Fetal interventions	Room 517D
<i>Chairs: M. Bebbington (United States); A. Morency (Canada)</i>	
OP14: Fetal growth and predicting IUGR	Room 520
<i>Chairs: K. Maršál (Sweden); E. Hernandez-Andrade (United States)</i>	
OP15: Evaluating women with pelvic pain	Room 524
<i>Chairs: P. Doubilet (United States); S. Guerriero (Italy)</i>	
OP16: Caesarean section scars and abnormal placental implantation	Room 518
<i>Chairs: R. Brown (Canada); B. Tutschek (Switzerland)</i>	

12:45 - 14:20 Lunch and e-poster viewing (EP)

12:55 - 13:15 Poster discussion Hubs (P)	Room 517C
P12: New imaging technologies	Hub 1
<i>Chair: H. Feltovich (United States)</i>	
P13: Education and low resource settings	Hub 2
<i>Chair: A. Johnson (United States)</i>	
P14: Challenges in genetic diagnosis case reports	Hub 3
<i>Chair: J. Hyett (Australia)</i>	

12:55 - 13:15	Just images: understanding MRI and 3D	<i>Hub 4</i>
	<i>J.L. Alcázar (Spain)</i>	
13:15 - 14:15	Industry sponsored satellite symposium**	
13:30 - 14:00	ISUOG guidelines Hubs	<i>Room 517C</i>
	ISUOG guidelines in Mandarin: first trimester	<i>Hub 1</i>
	<i>K.Y. Leung (Hong Kong)</i>	
	ISUOG guidelines in English: multiple pregnancy	<i>Hub 2</i>
	<i>A. Khalil (United Kingdom)</i>	
	ISUOG guidelines in French: relevance of the first trimester guidelines in a francophone world	<i>Hub 3</i>
	<i>F. Audibert (Canada); P. Coquel (France)</i>	
	ISUOG guidelines in Spanish	<i>Hub 4</i>
	<i>M. Herrera (Colombia); E. Gratacós (Spain)</i>	
14:20 - 15:40	Workshop: Controversies in the management of selective fetal growth restriction in twin pregnancy	<i>Room 517D</i>
	Chairs: E. Gratacós (Spain); K. Hecher (Germany)	
14:20	The definition and classification of selective fetal growth restriction in twin pregnancy <i>E. Gratacós (Spain)</i>	
14:35	Conservative management of selective fetal growth restriction in twin pregnancy and selection of cases for fetal therapy <i>K. Hecher (Germany)</i>	
14:50	Laser treatment versus cord occlusion <i>Y. Ville (France)</i>	
15:05	Long-term outcomes <i>A. Khalil (United Kingdom)</i>	
15:20	Cases and faculty discussion <i>G. Ryan (Canada)</i>	
14:20 - 15:40	Workshop: Changing expectations: the 11-14 week routine anomaly scan	<i>Room 520</i>
	Chairs: R. Chaoui (Germany); F. Ushakov (United Kingdom)	
14:20	Early normal and abnormal brain <i>R. Chaoui (Germany)</i>	
14:35	Heart <i>J. Carvalho (United Kingdom)</i>	
14:40	Abdomen, kidneys, abdominal wall <i>C. Bilardo (Netherlands)</i>	
15:05	The maxillary gap: a new sign <i>R. Chaoui (Germany)</i>	
15:20	Limbs and skeletal dysplasia <i>F. Ushakov (United Kingdom)</i>	

** 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 126 for our satellite program.

14:20 - 15:40 Workshop: Looking after women with bleeding, pain or other problems in early pregnancy (ectopic pregnancy, miscarriage and PUL) Room 524

Chairs: *T. Bourne (United Kingdom); P. Doubilet (United States)*

- 14:20 How to manage women with a pregnancy of unknown location: the role of progesterone, hCG and prediction models
S. Bobdiwala (United Kingdom)
- 14:40 Diagnosing and managing Caesarean section scar pregnancy: a modern epidemic?
I. Timor-Tritsch (United States)
- 15:00 Diagnosing tubal ectopic pregnancy and appropriately selecting women for expectant, medical or surgical intervention
G. Condous (Australia)
- 15:20 Avoiding errors in early pregnancy care: common pitfalls
P. Doubilet (United States)

14:20 - 15:40 Workshop: How important is the evaluation of the placenta? Room 518

Chairs: *N. Sebire (United Kingdom); J. Kingdom (Canada)*

- 14:20 Placental pathologies
N. Sebire (United Kingdom)
- 14:35 Uterine artery Doppler
C. Brezinka (Austria)
- 14:50 Placental morphology using ultrasound
J. Kingdom (Canada)
- 15:05 Functional MR imaging of the placenta
L. Salomon (France)
- 15:20 Discussion

14:20 - 15:40 ISUOG Outreach workshop Room 517C

Mind map: impact on clinical pathways Hub 1

Chairs: A. Johnson (United States); J. Hyett (Australia)

Finalising a template for Outreach: who, how and what do we need to deliver? Hub 2

Chairs: A. Abuhamad (United States); A. Tabor (Denmark)

Understanding your needs: technology in remote settings Hub 3

Chairs: S. Eik-Nes (Norway); H. Feltovich (United States)

Maximising partnerships, the role of industry and partners in Outreach Hub 4

Chairs: T. Kiserud (Norway); T. Cohen-Overbeek (Netherlands)

15:40 - 16:10 Coffee and e-poster viewing (EP)

16:10 - 17:30 Special Interest Groups Room 517C

- Heart Hub 1**
- MRI Hub 2**
- Doppler Hub 3**
- 3D Hub 4**

16:10 - 17:35		Congenital infections	Room 517D
		Chairs: L. Salomon (France); A. Gagnon (Canada)	
16:10		Sonographic abnormalities among a cohort of well-controlled HIV-positive pregnant women <i>M. Yudin; D. Caprara; S. MacGillivray; M. Urquia; R. Shah (Canada)</i>	OC17.01
16:15		Discussion	
16:18		Primary maternal cytomegalovirus infections: how accurate is fetal ultrasound to predict sequelae in the offspring? <i>M. Leyder; E. Done; A. Vorrsselmans; G. Faron; I. Foulon; A. Naessens; A. Jansen; W. Foulon; L. Gucciardo (Belgium)</i>	OC17.02
16:23		Discussion	
16:26		Fetal growth in cytomegalovirus infection: the role of hyperimmunoglobulin therapy <i>E. Cosmi; S. Visentin; G. Forner; N. Gussetti; A. Cacace; F. De Marchi; R. Manara (Italy)</i>	OC17.03
16:31		Discussion	
16:34		CMV imaging advances <i>D. Pugash (Canada)</i>	
16:54		CMV preventions and therapies <i>M. Yudin (Canada)</i>	
17:14		Parvovirus infection: monitoring, treatments and outcomes <i>A. Gagnon (Canada)</i>	

16:10 - 17:30		Fetal interventions in twins	Room 520
		Chairs: A. Johnson (United States); G. Ryan (Canada)	
16:10		LIVE SCAN: optimal assessment of monochorionic twins [industry supported*] <i>F. Audibert (Canada)</i>	
16:30		^{YI} Stage-based outcomes for 400 cases of TTTS managed with fetoscopic laser ablation of placental anastomoses <i>A. Morency; R. Hodges; J. Keunen; R. Windrim; G. Seaward; G. Ryan (Canada)</i>	OC18.01
16:35		Discussion	
16:38		Prognostic value of fetal hemodynamic parameters in early fetal death and neonatal outcome after laser photocoagulation in twin-to-twin transfusion syndrome <i>T-A. Delabaere¹; F. Leduc²; F. Fuchs¹; Q. Reboul²; S. Wavrant²; J. Dubé²; J. Fouron²; F. Audibert² ¹(France); ²(Canada)</i>	OC18.02 & OC18.03
16:46		Discussion	
16:49		Aortic isthmus predicts neonatal outcome in twin-twin transfusion syndrome treated by laser coagulation <i>F. Leduc; A. Delabaere; R. Gendron; Q. Reboul; F. Fuchs; S. Wavrant; J. Dubé; J. Fouron; F. Audibert (Canada)</i>	OC18.04
16:54		Discussion	
16:57		^{YI} Cord occlusion in complicated monochorionic multiple pregnancies: a comparison of techniques <i>D. El-Chaar; K. Gouin; G. Seaward; R. Windrim; J. Keunen; J. Kachura; R. Beecroft; P. Shah; G. Ryan (Canada)</i>	OC18.05
17:02		Discussion	

^{YI} This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).

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

- 17:05 Ultrasound-guided high intensity focused ultrasound (HIFU) ablation of placental vasculature: feasibility, fetal and maternal responses OC18.06
 & OC18.07
 C. Shaw; J. Civale; K. Botting; Y. Niu; D. Giussani; I. Rivens;
 G. Ter Haar; C. Lees (United Kingdom)
- 17:13 Discussion
- 17:16 TTTS: pathogenesis, diagnosis, management
 B. Thilaganathan (United Kingdom)

16:10 - 17:30 Early pregnancy complications Room 524

- Chairs: D. Timmerman (Belgium); P. Acharya (India)**
- 16:10 Why changes to guidance for the diagnosis of miscarriage were not conservative and could be more rigorous
 T. Bourne (United Kingdom)
- 16:30 The association between morphological type of tubal ectopic pregnancy on scan, serum hCG levels, hCG ratio and choice/success of subsequent management OC19.01
 & OC19.02
 B. Nadim¹; M. Mongelli¹; B. Gerges¹; F. Infante¹; G. Condous¹; C. Lu²
 ¹(Australia); ²(Comoros)
- 16:35 Discussion
- 16:38 Retained products of conception (RPOC): still a subjective ultrasound diagnosis with objective clinical consequences? OC19.03
 N. Page; A. Smith; L. Stocia; J. Hamilton (United Kingdom)
- 16:43 Discussion
- 16:46 Sonography of responsive versus non-responsive ectopic pregnancies OC19.04
 A.A. Desai; A. Fleischer; M. New; C. Smolinsky; J. McKenna;
 R. Andreotti (United States)
- 16:51 Discussion
- 16:54 Non-tubal ectopic pregnancies: ultrasound diagnosis, management options and clinical outcomes OC19.05
 J. Ramkrishna; G. Kan; K. Reidy; C. Ang; R. Palma-Dias (Australia)
- 16:59 Discussion
- 17:02 A prospective observational study to validate the reliability of the early pregnancy viability scoring system OC19.06
 O. Wan; S. Chan; G. Kong (Hong Kong)
- 17:07 Discussion
- 17:10 Variations in the quality of ultrasound scanning among early pregnancy units OC19.07
 M. Memtsa; D. Jurkovic; J. Ross (United Kingdom)
- 17:15 Discussion
- 17:18 Does fetal growth and pregnancy outcome correlate with the amount and duration of vaginal bleeding or abdominal pain in the first trimester? OC19.08
 & OC19.09
 A preliminary study
 S. Saso¹; M. Al-Memar¹; L. Ismail¹; S. Bobdiwala¹; P. Roelants²;
 G. Nikolic²; D. Popovic²; C. Stalder¹; B. De Moor²; T. Bourne²
 ¹(United Kingdom); ²(Belgium)
- 17:23 Discussion

OP - Tuesday 13 October 2015

OP09: New imaging technologies

Room 517D

Chairs: D. Prayer (Austria); B. Thilaganathan (United Kingdom)

- Human placental perfusion analysis by diffusion-weighted MRI OP09.01
L.J. Salomon (France)
- Whatsapps ultrasound teleconsultation in a low-resource setting: feasibility, accuracy and patient's psychological acceptability OP09.02
J. Akinmoladun (Nigeria)
- Evaluating synchronicity in binocular fetal eye movements using high resolution ultrasound OP09.03
J. Neelavalli (United States)
- Controlling for sources of variance reduces attenuation measurement variability in the human cervix OP09.04
H. Feltovich (United States)
- Improving the performance of fetal brain magnetic resonance spectroscopy (MRS) at 1.5T in a multicentric study OP09.05
M. Sanz Cortes (United States)
- Success rate of a fetal MRI and MR spectroscopy research protocol on a 3.0T scanner at term OP09.06
M. Sanz Cortes (United States)
- HDlive in the assessment of placenta and umbilical cord OP09.07
M.A. AboEllail (Japan)
- Correlation between ultrasound, x-ray and CT scan with histopathology in antenatally diagnosed cases of congenital pulmonary airway malformation (CPAM) OP09.08
S. Mehta (Canada)
- Ultrasound fetal virtual autopsy: an artificial water surrounding OP09.09
A. Aabadli (France)
- Shear-wave elastography shows changes in the elastic properties of the lower uterine segment (LUS) in women with prior Caesarean deliveries OP09.10
M. Garcia (United States)
- Non-contrast magnetic resonance angiography (MRA) in human pregnancy: visualisation of the utero placental and fetal vasculature OP09.11
J. Neelavalli (United States)

OP10: Delivery prediction throughout the trimesters

Room 520

Chairs: T. Ghi (Italy); J. Crane (Canada)

- Association between first trimester cervical consistency index (CCI) and preterm birth in low risk population OP10.01
M.A. Parra-Saavedra (Spain)
- Transabdominal cervical length in the detection of a short cervix: a validation study OP10.02
N. Schwartz (United States)
- Cervical pessary and micronised progesterone vaginal tablets for the prevention of spontaneous preterm birth in singleton pregnancies with mid-trimester short cervix OP10.03
A.L. Zimmerman (Canada)
- Combination of cervical pessary and progesterone for treatment of preterm birth: University of Baskent experience OP10.04
C. Gulumser (Turkey)
- Predictors of pregnancy outcome for emergency cerclage OP10.05
G. Lee (Republic of Korea)

Serial cervical length measurements in twin gestations improves the predictive accuracy for preterm birth <i>N. Melamed (Canada)</i>	OP10.06
The predictive value of sonographic cervical length in triplet pregnancies? <i>N. Melamed (Canada)</i>	OP10.07
Premature rupture of membranes assessment via transperineal ultrasonography as an alternative to speculum examinations <i>E. Kalafat (Turkey)</i>	OP10.08
Prolonged second stage of labour: retrospective meta-analysis of the performance of the progression angle in the prediction of the mode of delivery <i>E. Contro (Italy)</i>	OP10.09
Large head circumference is more strongly associated with unplanned Caesarean delivery than high birthweight, in primiparous women <i>S. Yagel (Israel)</i>	OP10.10

OP11: Investigating abnormal bleeding and uterine pathology

Room 524

Chairs: T. Van den Bosch (Belgium); P. Glanc (Canada)

Reproducibility of IETA colour score for assessing endometrial vascularisation using colour Doppler <i>J.L. Alcázar (Spain)</i>	OP11.01
The additional value of elastography to gray-scale ultrasound in the assessment of fibroids and adenomyosis <i>B. Stoelinga (Netherlands)</i>	OP11.02
Diagnostic accuracy of two-dimensional transvaginal ultrasound in the diagnosis of adenomyosis <i>C.K. Rasmussen (Denmark)</i>	OP11.03
Efficacy of 3D transvaginal ultrasound in predicting a negative sonohysterography for endometrial pathology <i>A. Mansour (Canada)</i>	OP11.04
Diagnostic evaluation of endometrial vascularity by three dimensional ultrasonography Doppler angiography in patients with postmenopausal bleeding <i>A. Rossi (Italy)</i>	OP11.05
Ultrasonic findings with failed thermal endometrial ablation <i>R.C. Sanders (United States)</i>	OP11.06
Uterine artery embolisation: clinical outcomes and complications post UAE <i>R. Ali (United Kingdom)</i>	OP11.07
The role of ultrasound (US) in the diagnosis/treatment of acquired uterine arteriovenous malformations (AVMs) <i>A. Monteagudo (United States)</i>	OP11.08
3D power Doppler in uterine fibroids; influence of gain, cardiac cycle and off line measurement techniques <i>L.L. Nieuwenhuis (Netherlands)</i>	OP11.09
Elastography of endometrium in tamoxifen treated women with suspicion of endometrial hyperplasia <i>K. Preis (Poland)</i>	OP11.10
3D transvaginal sonography as a preoperative tool in predicting the need to morcellate in women undergoing laparoscopic hysterectomy <i>B. Gerges (Australia)</i>	OP11.11

OP12: Too many chromosomes, too much water**Room 518****Chairs: A. Gagnon (Canada); K. Fung Kee Fung (Canada)**

- The impact of late amniocentesis in the era of genomic technology OP12.01
S. Yagel (Israel)
- Modified sequential test for prenatal screening of chromosomal abnormalities: a 5-year study OP12.02
D. Smetanova (Czech Republic)
- Is PT/NBL ratio valuable in screening Down's syndrome in fetus with nasal bone dysplasia OP12.03
Z. Hu (China)
- The frontal fetal facial (FFF) angle in the second trimester measured by 3D ultrasound in normal fetuses and fetuses with Trisomy 21 OP12.04
E. Merz (Germany)
- Are severely growth restricted aneuploid fetuses more likely to exhibit symmetrical growth restriction and normal Dopplers? OP12.05
S. Usman (United Kingdom)
- Perinatal mortality rate according to the location of fluid collection sites in non-immune hydrops fetalis OP12.06
J. Espinoza (United States)
- Perinatal outcomes in non-immune hydrops OP12.07
V. Berger (United States) & OP12.08
- Fetal MRI compared to ultrasonography in the diagnosis of genitourinary malformations OP12.09
A. Millischer (France)

OP13: Fetal interventions**Room 517D****Chairs: M. Bebbington (United States); A. Morency (Canada)**

- Neurofetoscopy imaging a novel tool for the diagnosis and treatment of terminal myelocystocele OP13.01
I.S. Britto (Brazil)
- Outcome and longitudinal changes in pulmonary growth, lung mass volume and intrafetal fluid effusions after percutaneous laser ablation of the feeding artery in fetuses with bronchopulmonary sequestration OP13.02
R. Cruz-Martinez (Mexico)
- Current practice in invasive diagnostic procedures: a national survey of obstetric sonologists OP13.03
L. Hui (Australia)
- Predicting moderate to severe fetal anemia after previous intrauterine transfusion OP13.04
P. Acharya (India)
- Outcomes of 40 cases of TRAP sequence treated by radio frequency ablation: a single centre experience OP13.05
R. Sugibayashi (Japan)
- Perinatal outcomes following preferential modified sequential selective laser photocoagulation surgery for twin-twin transfusion syndrome OP13.06
S. Murata (Japan)
- The efficacy of radiofrequency ablation with Cool-tip RF system for twin reversed arterial perfusion sequence OP13.07
M. Wagata (Japan)
- Impact of maternal obesity on operative times and perinatal outcome at laser therapy for twin-twin transfusion syndrome OP13.08
R. Cruz-Martinez (Mexico)
- Development of a non-animal task trainer for *in utero* stenting OP13.09
E. Codsí (United States)

OP14: Fetal growth and predicting IUGR**Room 520****Chairs: K. Maršál (Sweden); E. Hernandez-Andrade (United States)**

- Low first trimester PAPP-A and second trimester uterine artery Dopplers in antenatal detection of SGA babies <10th centile OP14.01
O.M. Thompson (United Kingdom)
- Ultrasound and Doppler evaluation at routine third trimester scan to detect late pregnancy (SGA) in adequate-for-gestational age (AGA) pregnancies OP14.02
M.A. Parra-Saavedra (Spain)
- Ultrasound and Doppler evaluation at routine third trimester scan to detect late pregnancy large-for-gestational age fetuses (LGA) in (AGA) fetuses OP14.03
M.A. Parra-Saavedra (Spain)
- Prediction of small for gestational age neonates by third trimester fetal biometry with maternal characteristics OP14.04
Q. Reboul (Canada)
- Withdrawn OP14.05
- Cerebroplacental Doppler ratio and adverse perinatal outcomes in intrauterine growth restriction OP14.06
C.B. Kirwin (United Kingdom)
- Impact of replacing ethnicity specific fetal biometry charts by the INTERGROWTH-21st standard reference charts OP14.07
Y.K. Cheng (Hong Kong)
- Association between ultrasound and Doppler parameters and subsequent low growth trajectory of adequate-for-gestational fetuses at routine third trimester scan OP14.08
M.A. Parra-Saavedra (Spain)
- Prediction of small-for-gestational-age (SGA) newborn from ultrasound biometry and maternal characteristics OP14.09
M. Mongelli (Australia)

OP15: Evaluating women with pelvic pain**Room 524****Chairs: P. Doubilet (United States); S. Guerriero (Italy)**

- Transvaginal ultrasound soft markers for the prediction of endometriosis type and location or normal and endometriotic ovary OP15.01 & OP15.02
B. Gerges (Australia)
- Adenomyosis ultrasound findings in patients with previously know endometriosis OP15.03
C. Ros (Spain)
- Transvaginal elastography of rectosigmoid endometriotic nodules: correlation with symptoms and histology OP15.04
S. Ferrero (Italy)
- Development and validation of a preoperative ultrasound staging system for predicting level of laparoscopic endometriosis surgery required OP15.05
B. Gerges (Australia)
- Bladder detrusor endometriosis: where does it come from? OP15.06
V.H. Eisenberg (Israel)
- Old and new protagonists on the ultrasound scene for the diagnosis of deep pelvic endometriosis: a systematic literature review and meta-analysis OP15.07
S. Gizzo (Italy)
- Increased rate of uterine retroflexion in women with history of a previous Caesarean delivery OP15.08
O. Rotenberg (United States)
- Acute ovarian torsion: the impact of time delays to surgery OP15.09
H. Ghandehari (Canada)

OP16: Caesarean section scars and abnormal placental implantation	Room 518
<i>Chairs: R. Brown (Canada); B. Tutschek (Switzerland)</i>	
Effective anatomical and functional status of the lower uterine segment at term pregnancy: ultrasound estimation of the risk of uterine dehiscence <i>S. Gizzo (Italy)</i>	OP16.01
Impact of uterine closure on residual myometrial thickness after Caesarean: a randomised controlled trial <i>S. Roberge (Canada)</i>	OP16.02
Longitudinal Caesarean section scar evaluation in primiparous women after single or double layer uterotomy closure: prospective randomised study <i>J. Hanacek (Czech Republic)</i>	OP16.03
Placental location, postpartum hemorrhage and retained placenta in women previously delivered by Caesarean section: a prospective cohort study <i>J. Belachew (Sweden)</i>	OP16.04
MRI of placenta accreta: the added value of intravenous gadolinium injection <i>A. Millischer (France)</i>	OP16.05
Impact of fusion imaging in the diagnosis of placenta accreta <i>F. Fuchs (France)</i>	OP16.06
Intraoperative ultrasound may change management of suspected placenta accreta <i>N. Trivedi (United States)</i>	OP16.07
Is twin pregnancy really a risk factor for placenta previa? <i>S. Yang (Republic of Korea)</i>	OP16.08

P - Tuesday 13 October 2015

P08: Diagnosis and management of growth restriction

Room 517C (Hub 1)

Chair: A. Baschat (United States)

- Renal function assessment in newborns with intrauterine growth restriction P08.01
V. Marsoosi (Islamic Republic of Iran)
- Effect of gestational hypertension on fetal renal vascularisation P08.02
M. Jakó (Hungary)
- Customised fetal growth charts by quantile regression analysis: a cross-sectional multicentric Italian study P08.03
N. Volpe (Italy)
- Abnormalities in neonatal transfontanelar ultrasound in fetal growth restriction fetuses with abnormal umbilical Doppler P08.04
A.R. Caetano (Brazil)
- IUGR fetuses and systolic aortic isthmus flow Doppler: values of the isthmic systolic index (ISI) P08.05
J. Chabaneix (France)
- Is fetal liver blood flow associated with ethnicity? P08.06
G. Haugen (Norway)
- Prognostic factors in preterm small-for-gestational-age infants for the outcome at 18 months age: a Japanese multicentre study P08.07
J. Sasahara (Japan)
- Cerebroplacental ratio and its association with adverse perinatal outcomes in early and late onset intrauterine growth restriction (IUGR) P08.08
I. Babic (Canada)
- Reference resistance indexes of the umbilical and middle cerebral artery and cerebroplacental ratio at 3,400 metres above sea level P08.09
W. Villamonte Calanche (Peru)
- Estimated fetal weight as a predictor of small for gestational age neonates admitted to the neonatal unit at term P08.10
A. Khalil (United Kingdom)
- Maternal circulating IGF-I levels, prenatal and neonatal growth measurements P08.11
Z. Luo (Canada)
- Long-term growth as a function of abnormal Doppler flow in growth restricted fetuses P08.12
D. Mackeen (United States)

P09: Fetal echo: functional and anatomical

Room 517C (Hub 2)

Chair: S. Yagel (Israel)

- Clinical profiles, outcomes of isolated fetal complete atrioventricular block: a retrospective review of 14 cases at a single institution P09.01
K. Murakami (Japan)
- Clinical value of fetal echocardiography in diagnosis of fetal cardiac structural abnormalities P09.02
Y. Guo (China)
- "Wait and see" strategy is acceptable for premature constriction of ductus arteriosus P09.03
K. Kim (Japan)
- An analysis of echocardiographic characteristics of ventricular diverticula: from fetuses to adults P09.04
Y. He (China)
- Premature restriction or closure of foramen ovale in fetuses with structurally normal hearts P09.05
Y. He (China)
- A new and excellent screening way of aortic arch by the Biplane method P09.06
M. Kawataki (Japan)

The possibility of fetal heart screening by real time 4D <i>M. Kawataki (Japan)</i>	P09.07
The value of the ductus arteriosus in fetal congenital heart disease: evaluation by echocardiography combined with cardiovascular cast technology <i>M. Xie (China)</i>	P09.08
Agenesis of the ductus venosus associated with abnormal umbilical vein connection: fetal echocardiography characteristic and prenatal diagnosis value <i>Y. He (China)</i>	P09.09
The screening of heterotaxy syndrome that paid attention to position of apex and stomach bubble <i>M. Nagasawa (Japan)</i>	P09.10
Sonographic measurement of acceleration time-to-ejection time ratio in fetal pulmonary artery <i>H. Jin (Republic of Korea)</i>	P09.11
The association between fetal atrioventricular septal defect and chromosomal abnormalities in the current era <i>M. Morlando (United Kingdom)</i>	P09.12

P10: Case reports: early pregnancy and gynecology**Room 517C (Hub 3)****Chair: S. Goldstein (United States)**

Proposal for easy and reliable sonographic diagnosis of the first trimester Caesarean scar pregnancy <i>I.E. Timor-Tritsch (United States)</i>	P10.01
Interdisciplinary approach to medical management of a sub-hepatic ectopic pregnancy <i>M. Peckham (United States)</i>	P10.02
Decidualisation: a case report of a suspicious ovarian mass in pregnant woman <i>M.J. Kudla (Poland)</i>	P10.03
Abnormal pelvic vascularisation <i>W.A. Clavelli (Argentina)</i>	P10.04
Spontaneous expulsion of an endometrial polyp <i>T. Van den Bosch (Belgium)</i>	P10.05
Pseudoaneurysm of the uterine artery rupture: a case report <i>R. Radulescu-Botica (Romania)</i>	P10.06
Large cervical fibroids: a surgical challenge <i>M. Wong (United Kingdom)</i>	P10.07
Effect on sexual function after uterine artery embolisation for uterine fibroids <i>R. Ali (United Kingdom)</i>	P10.08
Sonographic diagnosis of canal of Nuck cysts: a small case series of a rare diagnosis <i>I. Lai (Canada)</i>	P10.09
An unusual Mullerian malformation: case report <i>M.D. Bernardo (Portugal)</i>	P10.10

P11: Fetal interventions**Room 517C (Hub 4)****Chair: B. Thilaganathan (United Kingdom)**

Basic study of reducing effect of tumor by ablation of the tumor-feeding artery using HIFU: potential for the fetal therapy <i>K. Ichizuka (Japan)</i>	P11.01
Chorionic villus sampling: an overview of the 11-year period in a single centre and identifying risk factors for miscarriage <i>M. Hynek (Czech Republic)</i>	P11.02
Selective fetal reduction in multiple pregnancies in a single centre in China <i>M. Chen (China)</i>	P11.03

The clinical application of transabdominal ultrasound-guided fetal reduction in multiple pregnancy <u>L. Wang (China)</u>	P11.04
Fundamental study for fetal therapy by using an improved HIFU transducer <u>K. Seo (Japan)</u>	P11.05
67 TTTS cases treated in a single centre in Santiago with classical selective technique <u>M. Yamamoto (Chile)</u>	P11.06
A single centre experience with selective termination of anomalous fetus in dichorionic multifetal pregnancies <u>A. Bhatia (Singapore)</u>	P11.07

P12: New imaging technologies

Room 517C (Hub 1)

Chair: H. Feltovich (United States)

Intraobserver agreement and variation over time in measuring fetal renal pelvis <u>M.H. Røset (Norway)</u>	P12.01
Utility of fetal magnetic resonance imaging in the diagnosis of heterotaxy syndrome as compared to obstetrical ultrasonography and echocardiography <u>B. Yilmaz (United States)</u>	P12.02
Agreement between volume calculation of the fetal urinary bladder based on radiuses and virtual organ computer-aided analysis <u>T.M. Eggebø (Norway)</u>	P12.03
Agreement between volume calculation based on VOCAL and SonoAVC <u>T.M. Eggebø (Norway)</u>	P12.04
Women think pregnancy management means obstetric ultrasound: Vietnamese obstetricians' views on the use of ultrasound during pregnancy <u>K. Edvardsson (Sweden)</u>	P12.05
Two sides of the same coin: an interview study of Swedish obstetricians' experiences on the use of ultrasound during pregnancy <u>A. Åhman (Sweden)</u>	P12.06
New approach to the exploration of internal genital fetal organs: an acoustic window to view the fetal uterus <u>G. Haddad (France)</u>	P12.07

P13: Education and low resource settings

Room 517C (Hub 2)

Chair: A. Johnson (United States)

Reproducibility of fetal biometry by an inexperienced paramedic using both two- and three dimensional ultrasound <u>V. Oboro (Nigeria)</u>	P13.01
Developing a basic obstetrics and gynecologic ultrasound module for interns at Queen Elizabeth Central Hospital in Malawi <u>A. Kachikis (Malawi)</u>	P13.02
The perceptions of novices on learning basic obstetrical ultrasound skills <u>H. Mirghani (United Arab Emirates)</u>	P13.03
Accuracy and learning curves of Crown-Rump length measurements performed by certified nurse midwives <u>E. Codsj (United States)</u>	P13.04
Knowledge sharing and basic ultrasound skills for midwives (MWs) <u>F. Ajibade (United Kingdom)</u>	P13.05
The use of handheld ultrasound increases medical student confidence when assessing fetal position after 28 weeks gestation <u>G. Davies (Canada)</u>	P13.06

Measurement of fetal transcerebellar diameter by sonography trainees in a low resource setting <i>M. Naqvi (United States)</i>	P13.07
Educational needs of Nigerian health workers for levels I and II obstetrics and gynecological ultrasound <i>V. Oboru (Nigeria)</i>	P13.08
Attitude of obstetric sonographers towards fetal sex determination <i>E. Enabudoso (Nigeria)</i>	P13.09

P14: Challenges in genetic diagnosis case reports

Room 517C (Hub 3)

Chair: J. Hyett (Australia)

Diamond-Blackfan anemia associated with increased nuchal translucency at 12 weeks of gestation and isolated fetal ascites <i>D. Nemescu (Romania)</i>	P14.01
Ultrasound features in a case of Williams-Beuren syndrome at second trimester scan <i>S. Al Nasiry (Netherlands)</i>	P14.02
Prenatal diagnosis and counselling of Leri-Weill dyschondrosteosis <i>S. Al Nasiry (Netherlands)</i>	P14.03
Persistent notochord in a fetus with COL2A1 mutation: a case report <i>E. Codsí (United States)</i>	P14.04
Early prenatal diagnosis of Beckwith-Wiedemann syndrome <i>S. Wavrant (Canada)</i>	P14.05
Prenatal diagnosis of Pfeiffer syndrome type II: a case report <i>S. Park (Republic of Korea)</i>	P14.06
Like mother, like daughter: maternal diagnosis of COL4A1 mutation after prenatal presentation in offspring <i>K. Theriault (Canada)</i>	P14.07
Pyloric atresia in lethal junctional epidermolysis bullosa due to mutation in the integrin $\beta 4$ (ITGB4) gene <i>S. Al Nasiry (Netherlands)</i>	P14.08
Ultrasound diagnosis of achondrogenesis type II with an occipital encephalocele at 15 weeks gestation <i>K. Fong (Canada)</i>	P14.09
Clinical and ethical dilemmas with chromosomal microarray analysis (CMA) detection of Charcot-Marie-Tooth in both mother and fetus <i>E. Bornstein (United States)</i>	P14.10
Prenatal sonographic diagnosis of microtia: Goldenhar syndrome <i>Y. Kim (Republic of Korea)</i>	P14.11



26th World Congress on Ultrasound in Obstetrics and Gynecology

25–28 September 2016, Rome, Italy

Save the date

Critical dates 2016

- | | |
|---------------------|---|
| January | Call for abstracts and registration opens* |
| 1 April | Abstract submission and presenter registration deadline |
| 25 July | Early bird registration deadline |
| 24 September | Pre-Congress courses |
| 25 September | Congress opens |



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Program - Wednesday 14 October 2015

07:30 - 08:10	Masterclasses	
08:15 - 09:35	Parallel Sessions (OC)	
	Clinical dilemmas in second and third trimester ultrasound	517D
	Cardiac function in special situations	520
	Managing the problem of AV malformations in gynecology	524
09:40 - 10:20	Short oral presentations (OP)	
	Fetal anatomy from head to toe	517D
	Arrhythmias and structural heart disease	520
	Reproductive medicine	524
10:20 - 10:40	Poster discussion Hubs (P)	517C
10:45 - 12:05	Parallel Sessions (OC)	
	Fetal growth assessment	517D
	Fetal anatomy from head to toe	520
	Reproductive medicine	524
12:10 - 12:50	Short oral presentations (OP)	
	Novel findings in IUGR	517D
	Advances in cardiac imaging	520
	Using emerging or alternative imaging in gynecology	524
12:55 - 13:15	Poster discussion (P) and Journal Hubs	517C
13:15 - 14:15	Industry sponsored satellite symposium	517D
13:30 - 14:00	Meet the Professors	517C
14:20 - 15:40	Workshops	
	Predicting and preventing pre-eclampsia	517D
	How MRI and ultrasound can work well together	520
	How to examine the pelvis of women with pelvic pain: making sure you pick up evidence of endometriosis and adenomyosis	524
16:10 - 17:10	Closing plenary	517D
17:10 - 18:00	Congress leaving drinks and welcome to Rome 2016	Foyer

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Join us on Tuesday 13 October, 13:30 - 14:00 in Hub 517C. With Guidelines in Chinese (Mandarin), Spanish and French. Let us know if you can help translate more!

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Program - Wednesday 14 October 2015

07:30 - 08:10 Masterclasses

Early assessment of the fetal brain <i>R. Chaoui (Germany)</i>	Room 517D
First trimester ultrasound in the CfDNA era <i>C. Bilardo (Netherlands)</i>	Room 520
Central hemodynamic changes in IUGR: the pivotal role of the aortic isthmus <i>J. Fourn (Canada)</i>	Room 524
How I evaluate the pelvis of women with pelvic pain: endometriosis, adenomyosis, IUD location and other pathology <i>B. Benacerraf (United States)</i>	Room 518

08:15 - 09:35 Clinical dilemmas in second and third trimester ultrasound **Room 517D**

	Chairs: A. Tabor (Denmark); G. Yeo (Singapore)	
08:15	Does scheduling of the fetal anatomic assessment by maternal BMI reduce the need for repeat examinations? <i>G. Davies; K. Fernandes; S. Munawar (Canada)</i>	OC20.01
08:20	Discussion	
08:23	Prospective assessment of the intergrowth biometric charts in an unselected French nationwide population <i>J. Stimemann; N. Fries; M. Fontanges; R. Mangione; L. Salomon (France)</i>	OC20.02
08:28	Discussion	
08:31	Non-medical fetal sex determination: a Danish study on practice, quality and patient perspectives <i>G. Størup; A. Dalsgaard; M. GrønkJaer (Denmark)</i>	OC20.03 & OC20.04
08:36	Discussion	
08:39	Maternal anxiety effect of four dimensional versus two-dimensional ultrasound in Nigeria: a randomised study <i>V. Oboro; O. Oboro; O. Awopetu; B. Arhuo; I. Adelokun (Nigeria)</i>	OC20.05
08:44	Discussion	
08:47	Late amniocentesis: is our counselling up to date? <i>A. Lawin O'Brien¹; A. Dall'Asta A^{2,1}; D. Tapon¹; R. Ellis¹; C. Lees¹ (United Kingdom); ²(Italy)</i>	OC20.06
08:52	Discussion	
08:55	Parental attitude to participating in follow-up research studies of their children's development after diagnosis of abnormalities <i>S. Tudorache; E. Coleta; R. Capitanescu; N. Cernea (Romania)</i>	OC20.07
09:00	Discussion	
09:03	DEBATE: soft marker scans are an outdated tool For: <i>A. Odibo (United States)</i> Against: <i>B. Benacerraf (United States)</i>	

08:15 - 09:35 Cardiac function in special situations Room 520

Chairs: J. Carvalho (United Kingdom); A. Abuhamad (United States)

08:15	LIVE SCAN: assessing cardiac function and rhythm [industry supported*] <u>J. Carvalho</u> (United Kingdom)	
08:35	^{YI} Assessment of fetal pulmonary artery pulsatility during maternal hyperoxygenation: a reliable index of pulmonary vascular reactivity? <u>C.C. Allen</u> ; <u>R. Keller</u> ; <u>G. Huang</u> ; <u>E. King</u> ; <u>E. Michelfelder</u> ; <u>A. Divanovic</u> (United States)	OC21.01
08:40	Discussion	
08:43	Evaluation of an automated fetal myocardial performance index <u>A.W. Welsh</u> ⁵ ; <u>P. Maheshwari</u> ⁵ ; <u>J. Wang</u> ⁵ ; <u>A. Henry</u> ⁵ ; <u>D. Chang</u> ⁵ ; <u>F. Crisp</u> ³ ; <u>H. Gardiner</u> ⁴ ; <u>E. Hernandez-Andrade</u> ⁴ ; <u>N. Meriki</u> ² ; <u>S. Redmond</u> ⁶ ; <u>S. Yagel</u> ¹ ¹ (Israel); ² (Saudi Arabia); ³ (Spain); ⁴ (United States); ⁵ (Australia)	OC21.02
08:48	Discussion	
08:51	Beat-to-beat variability of the fetal myocardial performance index (MPI) <u>P. Maheshwari</u> ; <u>J. Alphonse</u> ; <u>A. Henry</u> ; <u>J. Wang</u> ; <u>S. Redmond</u> ; <u>A.W. Welsh</u> (Australia)	OC21.03
08:56	Discussion	
08:59	Risk-based prenatal monitoring for immune mediated fetal heart disease: a prospective 5-year experience <u>E. Jaeggi</u> ^{1,2} ; <u>F. Golding</u> ^{1,2} ; <u>C. Laskin</u> ^{1,2} ; <u>J. Kingdom</u> ^{1,2} ; <u>E. Silverman</u> ^{1,2} ; <u>N. Kan</u> ¹ ¹ (Canada); ² (Cayman Islands)	OC21.04
09:04	Discussion	
09:07	Assessment of abnormal fetal heart rhythms <u>E. Jaeggi</u> (Canada)	

08:15 - 09:35 Workshop: Managing the problems of AV malformations in gynecology Room 524

Chairs: S. Goldstein (United States); D. Jurkovic (United Kingdom)

08:15	Uterine arteriovenous malformations (AVM): overview of diagnosis and management <u>D. Timmerman</u> (Belgium)
08:35	The role of ultrasound in AVM <u>I. Timor-Tritsch</u> (United States)
08:55	Management of AVM with retained products of conception <u>T. Van den Bosch</u> (Belgium)
09:15	The management of intrauterine arteriovenous malformations by applying biological glue under ultrasound guidance <u>P. Schwaerzler</u> (Austria)

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

^{YI} This presentation is eligible for the Young Investigator award (to be presented in the closing plenary).

09:40 - 10:20		Short oral presentation sessions (OP)	
	OP17: Fetal anatomy from head to toe		Room 517D
	<i>Chairs: A. Youssef (Italy); A. Ouellet (Canada)</i>		
	OP18: Arrhythmias and structural heart disease		Room 520
	<i>Chairs: S. Yagel (Israel); M. Sanz Cortes (United States)</i>		
	OP19: Reproductive medicine		Room 524
	<i>Chairs: S. Campbell (United Kingdom); S.L. Tan (Canada)</i>		
10:15 - 10:45		Coffee and e-poster viewing (EP)	
10:20 - 10:40		Poster discussion Hub sessions (P)	Room 517C
	P15: Too many babies, too few placentas		Hub 1
	<i>Chair: A. Abuhamad (United States)</i>		
	P16: Early pregnancy problems		Hub 2
	<i>Chair: G. Condous (Australia)</i>		
	P17: Rare and interesting cases		Hub 3
	<i>Chair: A. Toi (Canada)</i>		
10:45 - 12:05		Fetal growth assessment	Room 517D
	Chairs: S. Eik-Nes (Norway); K. Maršál (Sweden)		
10:45	Prediction of small-for-gestational-age neonates by third trimester fetal biometry: impact of ultrasound-delivery interval		OC22.01
	<i>Q. Reboul^{1,2}; A. Delabaere¹; Y. Wu¹; Z. Luo¹; C. Chaleur²; A. Nuyt¹; W. Fraser¹; F. Audibert¹ ¹(Canada); ²(France)</i>		
10:50	Discussion		
10:53	Association of third trimester low-growth trajectory to adverse perinatal outcome in low-risk pregnancies		OC22.02
	<i>M.A. Parra-Saavedra^{1,2}; S. Triunfo¹; F. Crovetto¹; E. Gratacós¹; F. Figueras¹ ¹(Spain); ²(Colombia)</i>		
10:58	Discussion		
11:01	Sonographic weight estimation of small-for-gestational-age fetuses: is the optimal model related to fetal body proportions?		OC22.03
	<i>N. Melamed; R. Greg; R. Windrim; A. Toi; J. Kingdom (Canada)</i>		
11:06	Discussion		
11:09	Gestational diabetes: a possible protective role in placental insufficiency		OC22.04
	<i>E. Contro; L. Cariello; G. Salsi; G. Pilu; N. Rizzo; A. Farina (Italy)</i>		
11:14	Discussion		
11:17	Fetal endothelial remodelling in late-onset gestational hypertension		OC22.05
	<i>S. Visentin; A. Londero; D. Faggian; C. Cosma; M. Plebani; E. Cosmi (Italy)</i>		
11:22	Discussion		
11:25	Are fetal cerebroplacental ratio and impaired placental perfusion recorded in the third trimester predictors of stillbirth and perinatal loss?		OC22.06
	<i>A. Khalil; R. Townsend; J. Morales-Roselló; A. Bhide; A. Papageorgiou; B. Thilaganathan (United Kingdom)</i>		
11:30	Discussion		
11:33	How do we best identify and manage SGA near term?		
	<i>F. Figueras (Spain)</i>		
11:58	Discussion		

10:45 - 12:05 Fetal anatomy from head to toe Room 520

- Chairs: L. Platt (United States); L. Morin (Canada)**
- 10:45 LIVE SCAN: practical use of new ultrasound technologies for the anatomic evaluation of the mid-trimester fetus [industry supported*]
G. Piliu (Italy)
- 11:05 Measurement of the inferior facial angle allows to differentiate between primary mandibular dysostoses and other chromosomal and syndromic conditions affecting mandibular growth OC23.01
D. Paladini; G. Donarini; G. Sglavo; D. Pastorino; D. Buffi; E. Fulcheri (Italy)
- 11:10 Discussion
- 11:13 How to objectively assess fetal facial clefts: what to measure and what to look for OC23.02
J. Weichert; R. Axt-Flidner; A. Kawecki; C. Enzensberger; J. Degenhardt; A. Weichert; M. Krapp; P. Kreisellaier; D. Hartge (Germany)
- 11:18 Discussion
- 11:21 Abnormal craniofacial integrity assessed by the novel maxilla-mandibula-nasion angle in aneuploid fetuses OC23.03
J. Weichert; M. Gembicki; R. Axt-Flidner; A. Kawecki; C. Enzensberger; J. Degenhardt; M. Krapp; P. Kreisellaier; D. Hartge (Germany)
- 11:26 Discussion
- 11:29 Prenatal imaging of ciliopathies OC23.04
D. Pugash; A. Lehman (Canada)
- 11:34 Discussion
- 11:37 Prenatal diagnosis of fetal musculoskeletal disorders: how accurate can we be? OC23.05
P. Glanc; E. Barkova; U. Mohan; A. Toi; S. Keating; D. Chitayat (Canada)
- 11:42 Discussion
- 11:45 A new sign to differentiate clubfoot from functional malposition: the transverse skin arch fold OC23.06
J. Develay-Morice; N. Frandji-Barbier; F. Grosjean; G. Haddad; C. Chau; C. D'ercole; P. Mares (France)
- 11:50 Discussion

10:45 - 12:05 Reproductive medicine Room 524

- Chairs: W. Martins (Brazil); S.L. Tan (Canada)**
- 10:45 The one-stop ultrasound-based fertility assessment including the use of foam to assess the fallopian tubes
T. Van den Bosch (Belgium)
- 11:05 Spontaneous conception after hysterosalpingo-foam sonography (HyFoSy) OC24.01
D. Van Schoubroeck; T. Van den Bosch; K. Van Tornout; T. D'Hooghe; D. Timmerman (Belgium)
- 11:10 Discussion

11:13	Increased likelihood of intrauterine device malposition in women with history of a previous Caesarean delivery <i>O. Rotenberg; J. Jou; W. Leung; E. Bircaj; L. Reimers; P. Dar (United States)</i>	OC24.02
11:18	Discussion	
11:21	Endometrial injury for subfertility: a comprehensive systematic review and meta-analysis <i>C.O. Nastri¹; S. Lensen²; M. Manders²; C. Farquhar²; W. Martins¹ (Brazil); ²(New Zealand)</i>	OC24.03
11:26	Discussion	
11:29	Diagnosis of septate uterus by 3D US using the ESHRE-ESGE consensus on classification of congenital anomalies in the female genital tract <i>B. Graupera; M. Pascual; L. Hereter; C. Pedrero; J. Browne; B. Úbeda; I. Rodríguez (Spain)</i>	OC24.04
11:34	Discussion	
11:37	How age influences ovarian vascular three dimensional ultrasound parameters in a large population of Italian fertile women <i>R. Venturella; S. Gizzo; M. Noventa; A. Vitagliano; M. Quaranta; D. Lico (Italy)</i>	OC24.05
11:42	Discussion	
11:45	<i>In vitro</i> fertilisation does not affect the sonographic characteristics of adenomyosis <i>S. Ferrero; E. Tafi; A. Racca; I. Erasmo; F. Sozzi (Italy)</i>	OC24.06
11:50	Discussion	
11:53	Use of endoscopic laser speckle contrast analysis to assess uterine perfusion and blood flow in a uterine transplantation model <i>S. Saso; N. Clancy; M. Tziraki; B. Jones; M. Al-Memar; T. Bracewell-Milnes; M. Thum; T. Bourne; D. Elson; J. Smith (United Kingdom)</i>	OC24.07
11:58	Discussion	

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

OP20: Novel findings in IUGR	Room 517D
<i>Chairs: S. Eik-Nes (Norway); A. Khalil (United Kingdom)</i>	
OP21: Advances in cardiac imaging	Room 520
<i>Chairs: G. DeVore (United States); F. Tessier (Canada)</i>	
OP22: Using emerging or alternative imaging in gynecology	Room 524
<i>Chairs: J.L. Alcázar (Spain); C. Brezinka (Austria)</i>	

12:45 - 14:20 Lunch and e-poster viewing (EP)

12:55 - 13:15	Poster discussion Hubs (P)	Room 517C
	P18: Second and third trimester ultrasound	Hub1
	<i>Chair: A. Odibo (United States)</i>	
	P19: Case reports: abnormalities of the nervous system, face, heart and vessels	Hub 3
	<i>Chair: G. Malinger (Israel)</i>	

12:55 - 13:15 UOG Journal club Room 517C
A. Youssef (Italy) **Hub 2**

13:15 - 14:15 Industry sponsored satellite symposium**

13:30 - 14:00 Meet the Professor Hubs Room 517C

Just images: ovarian masses examples and classic cases **Hub 1**
A. Testa (Italy)

How to run a study **Hub 2**
A. Odibo (United States)

Just images: CNS (French) **Hub 3**
F. Rypens (Canada); L. Salomon (France)

Advances in Obstetrics Doppler and fetal echo (Spanish) **Hub 4**
M. Herrera (Columbia), D. Cafici (Argentina)

14:20 - 15:40 Workshop: Predicting and preventing pre-eclampsia Room 517D

Chairs: A. Baschat (United States); E. Bujold (Canada)

14:20 Algorithm for prediction of pre-eclampsia
J. Hyett (Australia)

14:40 Prevention of pre-eclampsia using aspirin
E. Bujold (Canada)

15:00 Maternal cardiac function
A. Khalil (United Kingdom)

15:20 Round table discussion: future research directions
A. Baschat (United States)

14:20 - 15:40 Workshop: How MRI and ultrasound can work well together Room 520

Chairs: D. Prayer (Austria); E. Hernandez-Andrade (United States)

14:20 The basics of fetal MRI for obstetricians
D. Prayer (Austria)

14:30 Assessing the fetal brain using MRI
D. Prayer (Austria)

14:45 Other applications for MRI
C. Cassidy (United States)

15:00 Assessment of placenta accreta
A. Millischer (France)

15:15 Can MRI ever become a routine examination in pregnancy?
L. Salomon (France)

15:25 Discussion

** Luncheon 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 126 for our satellite program.

14:20 - 15:40 Workshop: How to examine the pelvis of women with pelvic pain: making sure you pick up evidence of endometriosis and adenomyosis **Room 524**

- Chairs: G. Condous (Australia); M. Herrera (Colombia)**
- 14:20 Consensus statement: a systematic approach to women with underlying endometriosis and terms, definitions and measurements used to describe the sonographic features of deep infiltrating endometriosis
G. Condous (Australia)
- 14:40 The sliding organ sign and how it predicts pouch of Douglas obliteration
S. Reid (Australia)
- 15:00 Evaluating pelvic adhesions and ureteric pathology using ultrasound
D. Jurkovic (United Kingdom)
- 15:20 Using MRI to evaluate endometriosis: should it replace or sit alongside ultrasound?
J.L. Alcázar (Spain)

15:40 - 16:10 Coffee and e-poster viewing (EP)

16:10 - 17:10 Closing plenary **Room 517D**

- Chairs: J. Copel (United States); A. Gagnon (Canada)**
- 16:10 Awards presentation: Top abstract and Young Investigator
A. Papageorgiou (United Kingdom); J. Hyett (Australia)
- 16:20 DEBATE: There is no longer a role for the NT scan in the NIPT era.
Arguments for: *J. Johnson (Canada); J. Hyett (Australia)*
Arguments against: *L. Platt (United States); S. Yagel (Israel)*
- 16:50 The second victim: how do doctors respond to complaints or when errors are investigated?
T. Bourne (United Kingdom)

17:10 - 18:00 Congress leaving drinks **Foyer**

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OP - Wednesday 14 October 2015

OP17: Fetal anatomy from head to toe

Room 517D

Chairs: *A. Youssef (Italy); A. Ouellet (Canada)*

Pediatric neuro-cognitive outcome following prenatal diagnosis of facial cleft <i>J. Stirnemann (France)</i>	OP17.01
Predicting outcome in fetuses with isolated left-sided CDH using multiple ultrasound parameters: a single centre study <i>R. Ruano (United States)</i>	OP17.02
Withdrawn	OP17.03
Immediate delivery versus expectant management of fetuses with abdominal wall defects <i>S. Contag (United States)</i>	OP17.04
Omphalocele with and without liver herniation: differences in outcome <i>F. Ushakov (United Kingdom)</i>	OP17.05
Fetal echogenic bowel is grade really important? <i>F. Bretelle (France)</i>	OP17.06
Significance of fetal enteroliths <i>F. Rypens (Canada)</i>	OP17.07
Ductus venosus agenesis: prenatal diagnosis and fetoneonatal outcome of 35 cases <i>B. Muto (Italy)</i>	OP17.08
Pediatric neurocognitive outcome following prenatal diagnosis of club foot <i>J. Stirnemann (France)</i>	OP17.09
Withdrawn	OP17.10
The impact of maternal obesity on a maternal fetal medicine office <i>L.A. Amicone (United States)</i>	OP17.11

OP18: Arrhythmias and structural heart disease

Room 520

Chairs: *S. Yagel (Israel); M. Sanz Cortes (United States)*

Fetal ventricular arrhythmias: 20 years institutional experience <i>W. Mawad (Canada)</i>	OP18.01
Difficulty of predicting pre- and postnatal course for the fetuses with 2:1 atrioventricular block with normal cardiac anatomy <i>Y. Maeno (Japan)</i>	OP18.02
Neurological outcome of children who were treated for fetal tachycardia complicated by hydrops <i>R. de Heus (Netherlands)</i>	OP18.03
Outcomes and chromosomal abnormalities in fetuses prenatally diagnosed with isolated persistent left superior vena cava <i>M. Cruz Lemini (Spain)</i>	OP18.04
Complete atrioventricular septal defect: prenatal diagnosis with fetal echocardiography, classification and associated malformations <i>J. Li (China)</i>	OP18.05
The study of Ebstein's anomaly in fetus echocardiography <i>Y. He (China)</i>	OP18.06
Hyperechogenicity of the ascending aorta a new indirect sign of coarctation of the aorta? <i>M. Herrera (Colombia)</i>	OP18.07
The new maker, triangle sign for fetal screening of isolate infracardiac total anomalous pulmonary venous return (TAPVD) <i>M. Kawataki (Japan)</i>	OP18.08
The association of prenatally diagnosed cardiac rhabdomyoma and tuberous sclerosis complex: a dismal combination? <i>T. Sarac Sivriköz (Turkey)</i>	OP18.09

First trimester "Y sign" at the level of three-vessel and trachea view: a new sensitive early marker of tetralogy of Fallot and Fallot-like double outlet right ventricle <i>M. Wiechec (Poland)</i>	OP18.10
Prenatal diagnosis and follow-up of fetal vascular ring <i>J. Li (China)</i>	OP18.11

OP19: Reproductive medicine

Room 524

Chairs: S. Campbell (United Kingdom); S.L. Tan (Canada)

The effects of nitric oxide donors on uterine artery blood flow in recurrent implantation failure and pregnancy rate <i>R. El-Said (Egypt)</i>	OP19.01
GnRH agonist during luteal phase for women undergoing assisted reproductive techniques: systematic review and meta-analysis of randomised controlled trials <i>C.O. Nastri (Brazil)</i>	OP19.02
The evaluation and clinical value of the tubal patency through the application of real-time three dimensional hysterosalpingo-contrast sonography (HyCoSy) <i>C. Zhu (China)</i>	OP19.03
A friendly and low-cost protocol Combining Oral Letrozol and Clomiphene for Ovarian stimulation (COOL-COS): a pilot study <i>W.P. Martins (Brazil)</i>	OP19.04
Efficacy of low-dose intramuscular pethidine in reducing the pain during hystero-contrast sonography: a randomised trial <i>V. Oboro (Nigeria)</i>	OP19.05
Time-lapse embryo imaging for embryo selection <i>W.P. Martins (Brazil)</i>	OP19.06
Ultrasound-guided aspiration of endometrial cavity blood in patients with isthmocele prior to embryo transfer: pilot study <i>S. Ferrero (Italy)</i>	OP19.07
Variation in antral follicle counts (AFC) at different times in the menstrual cycle <i>D. Mavrelou (United Kingdom)</i>	OP19.08
The effect of pregnancy on the uterine inner measurements on ultrasound <i>H. Wong (Hong Kong)</i>	OP19.09
The diagnostic value of transvaginal sonography in heterotopic pregnancy after in vitro fertilisation and embryo transfer <i>J. Wang (Hong Kong)</i>	OP19.10
3D hystero-salpingosonography for assessment of tubal patency: a systematic review with meta-analysis <i>J.L. Alcázar (Spain)</i>	OP19.11

OP20: Novel findings in IUGR

Room 517D

Chairs: S. Eik-Nes (Norway); A. Khalil (United Kingdom)

Nulliparous and multiparous women differ in placental vascular development <i>R. de Heus (Netherlands)</i>	OP20.01
Human embryonic head growth trajectories and maternal periconception characteristics using three dimensional ultrasound and virtual reality <i>I.V. Koning (Netherlands)</i>	OP20.02
Correlation of ultrasonographic and pathophysiologic measurements of umbilical and placental vessels in normal and growth restricted fetuses <i>M. Jakó (Hungary)</i>	OP20.03
Detecting placental pathology based on umbilical artery wave mechanics <i>A. Rahman (Canada)</i>	OP20.04
Prenatal demonstration of distal right coronary artery in normal and growth-restricted fetuses: a plausible sign of heart-sparing effect? <i>S. Miyashita (Japan)</i>	OP20.05

Fetal smallness-for-gestational-age is associated to reduced short term variability following administration of Betamethasone for fetal lung maturity <i>T. Ghi (Italy)</i>	OP20.06
Human umbilical and fetal cerebral blood flow velocity waveforms following maternal glucose loading: a cross-sectional observational study <i>G. Haugeten (Norway)</i>	OP20.07
Predictive potential of neonatal brain MR spectroscopy for neonatal neurobehaviour <i>M. Sanz Cortes (United States)</i>	OP20.08
Roherer's Ponderal index in the newborn: back to future <i>M. Yamamoto (Chile)</i>	OP20.09
Albuminuria and sodiuria in IUGR children <i>E. Cosmi (Italy)</i>	OP20.10

OP21: Advances in cardiac imaging

Room 520

Chairs: *G. DeVore (United States); F. Tessier (Canada)*

Evaluation of ascending aorta intima media thickness in intrauterine growth restricted fetuses <i>E. Cosmi (Italy)</i>	OP21.01
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Assessing fetal cardiac function using pulse Doppler and tissue Doppler in recipient twins of twin-twin transfusion syndrome <i>K. Ozawa (Japan)</i>	OP21.04
Free angle M-mode echocardiography in evaluation of left and right ventricular systolic functions of fetuses in second and late trimester <i>B.W. Zhao (China)</i>	OP21.05 & OP21.06
Fetal and neonatal diastolic cardiac strain rate: normal reference ranges and reproducibility in a prospective, longitudinal cohort of pregnancies <i>S.A. Maskatia (United States)</i>	OP21.07
Estimation of fetal pulse pressure using Phased-Tracking method <i>J. Muromoto (Japan)</i>	OP21.08
Assessment of fetal cardiac systolic function using value of annular M-mode displacement vs. tissue Doppler velocities <i>A. Hirose (Japan)</i>	OP21.09
Isthmic systolic index (ISI): feasibility from the three vessels and trachea view <i>O. Martin (France)</i>	OP21.10

OP22: Using emerging or alternative imaging in gynecology

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Chairs: *J.L. Alcázar (Spain); C. Brezinka (Austria)*

When does 3D ultrasonography in gynecology change clinical management <i>D. Jurkovic (United Kingdom)</i>	
Fractional moving blood volume for standardising three dimensional power Doppler quantification: importance of pulse repetition frequency <i>W.P. Martins (Brazil)</i>	OP22.01
Tumor volume calculation with VOCAL software in endometrial cancer patients: a reproducibility study <i>V. Chiappa (Italy)</i>	OP22.02
Strain imaging on transvaginal ultrasound to measure contractions in non-pregnant uteri <i>N.P. Kuijsters (Netherlands)</i>	OP22.03
Use of elastography in the diagnosis of endometrial lesions <i>M. Salman (United Kingdom)</i>	OP22.04

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P15: Too many babies, too few placentas

Room 517C (Hub 1)

Chair: A. Abuhamad (United States)

- The optimal antenatal surveillance strategy for monochorionic monoamniotic (MCMA) twins P15.01
S.Y. Jung (Republic of Korea)
- Incidences of fetofetal transfusion syndrome and perinatal outcomes in triplet gestations with monochorionic placentation P15.02
Y. Sato (Japan)
- Impact of placental cord insertion identified by ultrasound and pathology on neonatal outcomes in twin gestations P15.03
N. Trivedi (United States)
- Serial measurement of middle cerebral artery peak systolic velocity for prediction of twin anemia polycythemia sequence P15.04
K. Leung (Hong Kong)
- First trimester crown-rump length in twin pregnancy as a predictor of birthweight discordance P15.05
M. AlMugbel (Canada)
- Discordance in fetal biometry and Doppler are independent predictors of the risk of neonatal morbidity in twin pregnancies P15.06
A. Khalil (United Kingdom)
- Sonographic accuracy of estimated fetal weight age (EFW) in extremely preterm twin pregnancies: a comparison of small-for-gestational-age (SGA) to appropriate-for-gestational-age (AGA) P15.07
S. Jung (Republic of Korea)
- Placenta sharing is a risk factor for fetal growth restriction in triplet pregnancy P15.08
S. Kim (Republic of Korea)
- Associations of serum cytokines levels with fetal aortic intima-media thickness in twin pregnancies complicated by intrauterine growth restriction P15.09
E. Cosmi (Italy)
- Accuracy of antenatal sonographic identification of discordant birthweight in twins P15.10
R.N. Brown (Canada)
- First trimester nuchal translucency in twin pregnancy as a predictor of birthweight discordance P15.11
M. AlMugbel (Canada)

P16: Early pregnancy problems

Room 517C (Hub 2)

Chair: G. Condous (Australia)

- Physicians' behaviour toward the management of pregnancies of unknown location P16.01
M.S. Faden (Canada)
- Subchorionic hematoma: its size and association with early pregnancy outcome P16.02
J. Kwok (Hong Kong)
- β -hCG clearance during non-interventional management of tubal ectopic pregnancies P16.03
M. Memtsa (United Kingdom)
- The influence of smoking habits and food/drink consumption on first trimester growth P16.04
M. Mongelli (Australia)
- The value of transabdominal and transvaginal three dimensional ultrasound in the diagnosis and treatment of Caesarean scar pregnancy P16.05
X. Lin (China)
- Dangerous fetal heartbeat-positive abdominal pregnancies in a developed country P16.06
T. Hoshino (Japan)
- Complication of early pregnancy among women in Nigeria: blood pressure in pregnancy, fetal growth and neonatal complications P16.07
B.C. Oguntoyinbo (Nigeria)

Dangerous methotrexate-irreversible abdominal pregnancies in a developed country <i>T. Hoshino (Japan)</i>	P16.08
Psychological acceptability of transvaginal scan among Nigerians attending for early pregnancy ultrasound <i>V. Oboro (Nigeria)</i>	P16.09

P17: Rare and interesting cases**Room 517C (Hub 3)****Chair: A. Toi (Canada)**

'Baby in an envelope': amniotic membrane wrapping the fetus in the first trimester is associated with amniotic band sequence and talipes <i>F. Ushakov (United Kingdom)</i>	P17.01
Cardiac dextroposition as an early sign of lung hypoplasia and Scimitar syndrome <i>J.H. Ochoa (Argentina)</i>	P17.02
Transient urethral dilatation in the second trimester: natural history and outcome <i>N. Melamed (Israel)</i>	P17.03
Pentalogy of Cantrell: sonographic and magnetic resonance imaging findings <i>R. Vlck (Czech Republic)</i>	P17.04
Fetal head entrapment between the maternal pelvic bone and a pelvic mass <i>M. Roy-Lacroix (Canada)</i>	P17.05
Fetal rectal prolapse secondary to distal colic atresia <i>E. Rypens (Canada)</i>	P17.06
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Outcome of prenatal diagnosis of multilobar peripheral bronchial atresia mimicking large echogenic lung mass <i>S. Tuburan (United States)</i>	P17.08
In polyhydramnios investigation: don't forget trachea! <i>J. Develay-Morice (France)</i>	P17.09
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Management of maternal abdominal lymphangiomas during pregnancy: 2 case reports <i>S. Wavrant (Canada)</i>	P17.11
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P18: Second and third trimester ultrasound**Room 517C (Hub 1)****Chair: A. Odibo (United States)**

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Referral behaviour of ultrasonographers practicing in primary care screenings centres <i>M.C. Haak (Netherlands)</i>	P18.02
Prenatal diagnosis and fetopathology in a tertiary centre <i>S. Tudorache (Romania)</i>	P18.03
HDlive in the assessment of fetal intra-abdominal anomalies <i>N. Mori (Japan)</i>	P18.04
Fetal sex influences the variation of renal pelvis measurements during pregnancy <i>D. Nemescu (Romania)</i>	P18.05

Antenatal Idiopathic polyhydramnios: then what? <i>A. Al-Ibrahim (Qatar)</i>	P18.06
Late termination of pregnancy after 22 weeks for fetal anomalies: a single-centre experience <i>G. Cassir (Canada)</i>	P18.07
Lung growth in fetuses with left-sided congenital diaphragmatic hernia evaluated by three dimensional ultrasonography <i>R. Ruano (United States)</i>	P18.08
Prediction of prognosis and outcomes in pregnancies with a prenatal diagnosis of congenital diaphragmatic hernia compared to postnatal detection <i>P. Conner (Sweden)</i>	P18.09
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P19: Case reports: abnormalities of the nervous system, face, heart and vessels

Room 517C (Hub 3)

Chair: G. Malinge (Israel)	
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Prenatal diagnosis of syntelencephaly: two case reports <i>J.H. Ochoa (Argentina)</i>	P19.02
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Brain focal polygyria in thanatophoric dysplasia by ultrasound at 17–18 weeks of gestation: two case reports <i>R.K. Pooch (Japan)</i>	P19.04
Effectiveness of pulmonary vein blood flow waveforms in fetal screening of isolated total anomalous pulmonary venous drainage (TAPVD) <i>C. Tagata (Japan)</i>	P19.05
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A fistula connecting the coronary artery to the coronary sinus identified by prenatal diagnosis: case report and literature review <i>N. Volpe (Italy)</i>	P19.07
Prenatally diagnosed cardiac mass: a case report <i>S. Wavrant (Canada)</i>	P19.08
The syndrome of right atrial isomerism: prenatal diagnosis and outcome – 2 case reports with literature analysis <i>M. Xie (China)</i>	P19.09



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EP02	Placenta and pregnancy complications
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EP04	Fetal echocardiography
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EP09	Second and third trimester imaging
EP10	Gynecology
EP11	Reproductive medicine

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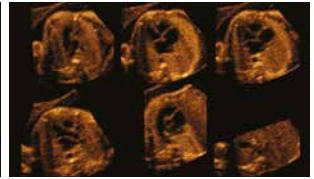
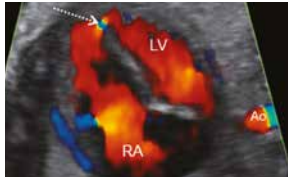


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EP - Electronic Posters

EP01: Preterm and term labour

- Surgical technique of cerclage for absent cervix after conisation: availability of Asakawa AYH uterine tenaculum forceps EP01.01
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- Correlation between the sonographic measurement of the occiput spine angle and the fetal head station in the first stage of labour EP01.02
T. Ghi (Italy)
- Isolated oligohydramnios at term as an indication for labour induction: a systematic review and meta-analysis EP01.03
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- Large head circumference vs. high birthweight in the risk of instrumental delivery in primiparae with "big babies" EP01.04
S. Yagel (Israel)
- Large head circumference is more strongly associated with risk of maternal and fetal complications than birthweight EP01.05
S. Yagel (Israel)
- Use of transperineal ultrasonography for predicting success of preventive labour induction at term EP01.06
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- Cervical measurement is useful predictor of success of TOLAC EP01.10
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- Pregnant women's view on the impact of nuchal cord on fetal outcomes in Nigeria EP01.11
V. Oboro (Nigeria)
- A narrow subpubic arch angle is associated with a higher risk of persistent posterior occiput position EP01.12
A. Youssef (Italy)
- A comparison between two 3D ultrasound contrast-enhancing techniques for subpubic arch angle measurement EP01.13
A. Youssef (Italy)
- Short cervical length on transvaginal ultrasound in mid-trimester pregnancy is associated with neonatal respiratory distress syndrome EP01.14
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EP02: Placenta and pregnancy complications

- A successful conservative treatment of large placental remnant after subtotal Caesarean hysterectomy EP02.01
S. Hong (Republic of Korea)
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Renal cell carcinoma in woman with high-risk pregnancy: a case report of pregnancy loss after radical nephrectomy <i>M.J. Kudła (Poland)</i>	EP02.03
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Bilateral hypogastric artery ligation before hysterectomy with placenta in situ in cases of placenta precreta: can it reduce maternal morbidity? <i>R. El-Said (Egypt)</i>	EP02.05
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Fetal MRI of hemimegalencephaly: a report of 4 cases <i>S.L. Laifer-Narin (United States)</i>	EP03.06
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Early prenatal diagnosis of fused cavum septi pellucidi (CSP) and fornix associated with dysgenetic corpus callosum (CC): case report <i>F. Moretti (Canada)</i>	EP03.08
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- Obstetric and perinatal outcomes in monochorionic twin pregnancies conceived by *in vitro* fertilisation EP07.06
S.Y. Jung (Republic of Korea)
- Frequency of discordancy in twins from Padre Hurtado Hospital EP07.07
M. Yamamoto (Chile)
- Monozygotic twins discordant for Trisomy 18 EP07.08
K. Tan (Singapore)
- Atypical course of complications in monochorionic twin pregnancy: quick development of TTTS in the 29th week EP07.09
K. Palasova (Czech Republic)
- Are the current antenatal diagnostic criteria for twin anemia polycythemia sequence adequate? EP07.10
K. Law (Hong Kong)

- Improvement of fetal weight after nutrition intervention on a case of selective fetal growth restriction of a monochorionic twin pregnancy EP07.11
I.S. Britto (Brazil)
- Dyssegmental dysplasia: clinical, radiological and molecular findings of a challenging antenatal diagnosis in a dizygotic twin pregnancy EP07.12
S.A. Basalom (Canada)

EP08: Screening for pregnancy complications

- Does cervical cerclage affect the rate of Caesarean section? EP08.01
I. Babic (Canada)
- Prediction of large-for-gestation neonates with first-trimester maternal serum PAPP-A EP08.02
A. Rossi (Italy)
- Perinatal outcomes and maternal characteristics in pregnancies with abnormal 50g oral glucose challenge test and normal 100g oral glucose tolerance test results EP08.03
C. Gulumser (Turkey)
- Early second trimester screening in high risk pregnancy at tertiary referral ultrasound centre EP08.04
A. Baranov (Sweden)
- What is the role of advance maternal age in pregnancy related complications? EP08.05
C. Gulumser (Turkey)
- Detection of single umbilical artery at 11–13 weeks scan: the accuracy of method and the importance as a marker of fetal malformation EP08.06
E. Porozova (Russian Federation)
- Estimation of gestational age at 11 to 13+6 weeks of gestation using fetal biparietal diameter in a Korean population EP08.07
M. Kim (Republic of Korea)
- Evaluation of angiogenic factors combined with Doppler parameters in healthy controls and fetal growth restriction EP08.08
A.P. Zamarian (Brazil)
- Does low dose aspirin effect mean uterine artery Doppler pulsatility index in women deemed high risk for early pre-eclampsia? EP08.09
F. Leduc (Canada)
- Adding biochemical markers to uterine artery Doppler in the first trimester in the prediction of preterm pre-eclampsia: magnitude of improvement EP08.10
G.R. Lobo (Brazil)
- First trimester maternal renal interlobar vein Doppler for pre-eclampsia prediction EP08.11
F. da Silva Costa (Australia)
- Repeatability, reproducibility and generalizability of transabdominal and transvaginal Doppler flow measurements of uterine arteries during the first trimester of pregnancy EP08.12
L. Marchi (Italy)
- Performance of first trimester uterine artery Doppler in the prediction of pre-eclampsia EP08.13
G.R. Lobo (Brazil)

EP09: Second and third trimester imaging

- Introduction of non-invasive prenatal testing (NIPT): did it impact the parental choice of prenatal examinations? EP09.01
R. Oi (Japan)
- Feasibility of chorionic villus sampling after 15 weeks of pregnancy in cases with severe oligohydramnios EP09.02
R. Cruz-Martinez (Mexico)
- Comparison of practice guidelines for the performance of the routine mid-trimester scan EP09.03
L.J. Salomon (France)
- Abnormal vertebral pattern and adverse fetal and neonatal outcome: a systematic review EP09.04
P.C. Schut (Netherlands)

84 consecutive cases of single umbilical artery in Padre Hurtado Hospital <i>M. Yamamoto (Chile)</i>	EP09.05
Prenatal diagnosis and perinatal outcome in congenital diaphragmatic hernia <i>S. Tudorache (Romania)</i>	EP09.06
Predicting fetal lung hypoplasia in congenital diaphragmatic hernia: parameters with ultrasound and magnetic resonance imaging <i>M. Shimizu (Japan)</i>	EP09.07
Prenatal diagnosis and outcome of fetuses with echogenic lung masses <i>F.A. Guerra (Chile)</i>	EP09.08
The importance of malformation counting method in patients with more malformed organs for the diagnostic accuracy in the tertiary referral centre <i>N. Vecek (Croatia)</i>	EP09.09
Can you give me a hand? Diagnosing and understanding the clinical significance of fetal hand anomalies in obstetric ultrasound <i>K. Snyder (United States)</i>	EP09.10
Proposal of ordinal scale for assessment of the extent of the body being affected by the malformations <i>N. Vecek (Croatia)</i>	EP09.11
The pattern of facial clefts in Chinese <i>Y. Ting (Hong Kong)</i>	EP09.12
Sex ratio of non-syndromic cleft lip and/or palate in Chinese <i>Y. Ting (Hong Kong)</i>	EP09.13
Creation of cerebellar diameter reference standard for the purpose of the detection of cerebellar hypoplasia unique to Trisomy 18 <i>K. Hayata (Japan)</i>	EP09.14
3D ultrasound finding of fetal adrenal hemorrhage <i>S. Kim (Republic of Korea)</i>	EP09.15
Prenatal diagnosis of extrahepatic portosystemic shunt <i>C. Bravo (Spain)</i>	EP09.16
Epignathus: case report and review of literature <i>R. El-Said (Egypt)</i>	EP09.17
Ex utero intrapartum treatment procedure a fetus with congenital high airway obstruction syndrome <i>T. Kanasugi (Japan)</i>	EP09.18
Value of prenatal ultrasound and MRI in the diagnosis of simple fetal inguinoscrotal hernia <i>X. Yang (China)</i>	EP09.19
HD Live with silhouette utility in ultrasound daily scanning for fetal anomalies <i>M. Calomfirescu (Romania)</i>	EP09.20
The role of obstetric ultrasound: experiences and views of physicians in obstetric care in Dar es Salaam, Tanzania <i>A. Åhman (Sweden)</i>	EP09.21
Antenatally diagnosed intra-abdominal umbilical vein varix <i>O.M. Thompson (United Kingdom)</i>	EP09.22
Pleural effusion: long-term prognosis in two cases <i>S.S. Herbst (Brazil)</i>	EP09.23
Cystic hygroma recurrence in the following pregnancy with normal karyotype <i>N. Sahin Uysal (Turkey)</i>	EP09.24
The use of a high frequency linear transducer to assess fetal anomalies <i>K.Y. Leung (Hong Kong)</i>	EP09.25
Update on hydration strategies for amniotic fluid improvement in isolated oligohydramnios and normohydramnios: a systematic review and meta-analysis <i>S. Gizzo (Italy)</i>	EP09.26
A new score to assess the difficulty of performing a routine mid-trimester scan <i>L.J. Salomon (France)</i>	EP09.27
Prenatal non-visualisation of fetal gallbladder: associated conditions and postnatal outcomes <i>R. Has (Turkey)</i>	EP09.28

Outcome of pregnancies complicated with Exomphalos in Wales during a 14 year period (1998–2012) <i>K. Upadhyay (United Kingdom)</i>	EP09.29
Prenatal presentation of a rare genetic condition: a case report of CCF <i>S. Wavrant (Canada)</i>	EP09.30
Prenatal diagnosis of chromosome 46, XX,der(9)t(4;9)(q31.1;p24) in fetus with transient isolated fetal pleural effusion <i>S. Guven (Turkey)</i>	EP09.31
Beckwith-Wiedemann syndrome: a case report <i>S. Park (Republic of Korea)</i>	EP09.32
Early prenatal diagnosis of Golabi syndrome <i>S. Wavrant (Canada)</i>	EP09.33
Prenatal diagnosis of Prader-Willi syndrome <i>M. Roy-Lacroix (Canada)</i>	EP09.34

EP10: Gynecology

Preliminary application of pelvic floor ultrasound in female with different classification of stress urinary incontinence <i>Y. Mao (China)</i>	EP10.01
Comparison of the diagnostic performance of three risk of malignancy indices in the preoperative assessment of adnexal tumors in postmenopausal patients <i>N. Abdalla (Poland)</i>	EP10.02
Ultrasound assessment of fibroids treated with ulipristal acetate <i>C. Ros (Spain)</i>	EP10.03
Application of contrast-enhanced ultrasound in ovarian fibromas <i>Y. Mao (China)</i>	EP10.04
Application of transperineal ultrasound in female urethras imaging and pathological change of circumurethras <i>Y. Mao (China)</i>	EP10.05
Sonovaginography in differential diagnosis of vaginal and paravaginal abnormalities: preliminary results <i>M.D. Bernardo (Portugal)</i>	EP10.06
Ultrasonographic imaging of vulvar structures in peri-menopausal women using high frequency ultrasound: lichen sclerosis – case report <i>M. Migda (Poland)</i>	EP10.07
B lymphoma on the transvaginal ultrasound scan <i>T. Indrielle (United Kingdom)</i>	EP10.08
Utility of high frequency ultrasound in vulvar skin imaging structures: valvular skin nevi – case report <i>M. Migda (Poland)</i>	EP10.09
The value of sliding sign in the prediction of pouch of Douglas obliteration in patients with posterior compartment endometriosis <i>V. Nadasan (Singapore)</i>	EP10.10
Transvaginal ultrasound in the evaluation of deep infiltrating endometriosis <i>W. Wong (Singapore)</i>	EP10.11
Usefulness of elastography in assessment of the post Caesarean uterine wall scare in women with abnormal uterine bleeding <i>S. Wozniak (Poland)</i>	EP10.12
Re-evaluation of MRgFUS treatment for uterine myoma with a higher signal intensity than that of myometrium on T2-weighted MR images <i>H. Fukunishi (Japan)</i>	EP10.13
Endoluminal three dimensional ultrasonography in diagnosis of congenital oblique vaginal septum syndrome <i>Q. Lin (China)</i>	EP10.14

EP11: Reproductive medicine

- An attempt to reduce the costs of assisted reproductive techniques: a pilot randomised controlled trial
C.O. Nastri (Brazil) EP11.01
- Ultrasound of spiral arteries in assessing endometrial receptivity in infertile women with adenomyosis taking low-dose acetylsalicylic acid
S. Wozniak (Poland) EP11.02
- Influence of insulin resistance level on ultrasound imaging of the ovaries in women with polycystic ovary syndrome: preliminary study
P.R. Szkodziak (Poland) EP11.03
- Fallopian-tube patency testing by hysterosalpingo-foam sonography in infertility exploration
B. Roxana (Romania) EP11.04
- Outcome of ICSI pregnancies with spontaneous loss of a co-twin compared with singleton ICSI pregnancies
N. Sahin-Uysal (Turkey) EP11.05

Exhibition and sponsorship

Satellite symposia*

Sunday 11 October	Monday 12 October	Tuesday 13 October	Wednesday 14 October	Room
Samsung Medison 13:30 - 14:30	GE Healthcare 13:15 - 14:15	Toshiba 13:15 - 14:15	Illumina 13:15 - 14:15	517D

Hospitality suites*

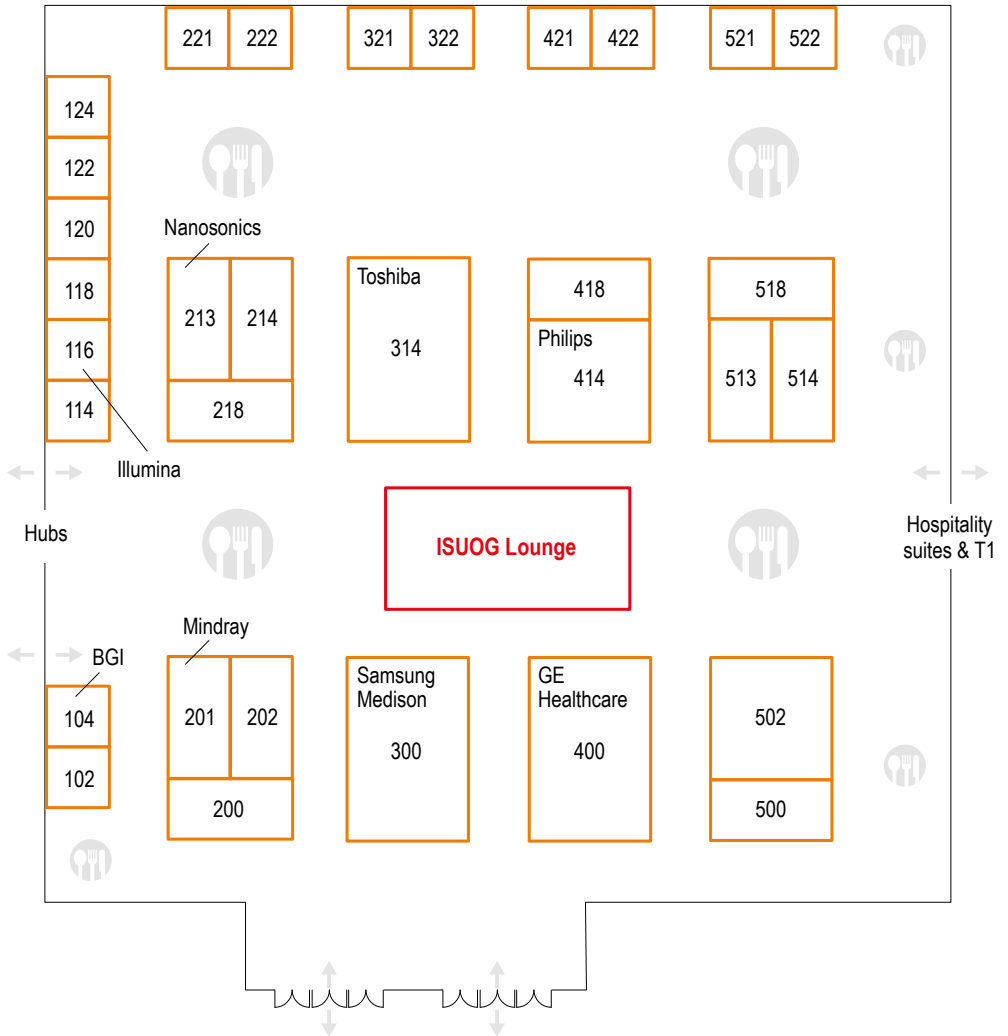
Sunday 11 October	Monday 12 October	Tuesday 13 October	Wednesday 14 October	Room
GE Healthcare hospitality & demonstration sessions				514AB
Toshiba hospitality & demonstration sessions				514C
Samsung Medison hospitality & demonstration sessions				515AB
			BGI hospitality & demonstration sessions	515C
GE VolusonClub lounge & hospitality suite				516AB
Philips hospitality & demonstration sessions				516D
			Nanosonics hospitality session	516E

Exhibition opening times

Sunday 11 October	Monday 12 October	Tuesday 13 October	Wednesday 14 October	Room
13:00 - 19:00	10:00 - 16:30	10:00 - 16:30	10:00 - 16:15	517AB

* See detailed listings of sponsor activities on pages 124-126.

Exhibition floor plan



Exhibitor listing

Company	Booth number
3D Systems, Symbionix Products	118
Alpinion Medical Systems	502
American Registry for Diagnostic Medical Sonography (ARDMS)	522
Ariosa Diagnostics	500
AS Software Inc.	214
astraira software GmbH	120
BGI	104
CAE Healthcare	218
Christie Innomed	322
ContextVision	221
Cook Medical	200
CRC Press	421
Dynacare Next	124
Elsevier	422
GE Healthcare	400
Hitachi Aloka Medical	418
Illumina, Inc.	116
International Society of Prenatal Diagnosis (ISPD)	T1
ISUOG Lounge	
Karl Storz GmbH & Co. KG	521
MedaPhor Ltd	514
MIDES GmbH	321
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SonoSim Inc.	114
Toshiba Medical Systems	314
Trice Imaging, Inc	513
Wolters Kluwer Health	122

Exhibitor profiles

3D Systems Simbionix Products

Booth: 118

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OH 44103, USA
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Galia Zilbershtein-Salant
Simbionix@3dsystems.com
www.simbionix.com

3D Systems healthcare solutions enhance quality-of-life through the use of 3D printing, surgical planning and personalized medical technologies. Experience our Simbionix U/S Mentor™, a virtual reality realistic hands-on training simulator for ultrasound-related examinations including OB/ GYN Transabdominal and Transvaginal scanning. Designated skill tasks, diverse diagnostic scenarios and captured metrics help promote clinical hands-on proficiency by providing residents, fellows and practicing physicians with an opportunity to acquire and improve their sonography-related skills on a variety of virtual patients.

Alpinion Systems Co. Ltd

Booth: 502

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Seoul 152-848, Korea
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Jinny Kim
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www.alpinion.com

Established in 2007 as a value innovator providing comprehensive ultrasound solutions, ALPINION has been dedicated to technological and user-driven innovation in medical ultrasound transducers, diagnostics and therapeutic ultrasound (US-guided HIFU).

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ARDMS

Booth: 522

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MD 20852, USA
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www.ardms.org

The American Registry for Diagnostic Medical Sonography® (ARDMS®), founded in 1975, is an independent, nonprofit organization that administers examinations and awards credentials in the areas of diagnostic medical sonography, diagnostic cardiac sonography, vascular technology, physicians' vascular interpretation, musculoskeletal sonography and midwifery ultrasound. ARDMS credentialing programs (RDMS, RDCS, RV and RPVI) are accredited by ANSI-ISO 17024. ARDMS has over 90,000 certified individuals throughout the world and is the recognized international standard of excellence in sonography credentialing.

Ariosa Diagnostics

Booth: 500

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Ariosa Diagnostics, Inc. is a leading global molecular diagnostics company committed to improving overall patient care by developing and delivering innovative, affordable and widely-accessible testing services through their CLIA laboratory. Tests are fully validated to CLIA requirements by rigorous and comprehensive methodologies to ensure health care practitioners and patients can be confident in the test's performance. Ariosa has developed leading-edge technologies to perform a directed analysis of cell-free DNA in blood. Ariosa was acquired by Roche in 2015.

AS Software Inc.**Booth: 214**

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Sande Lewis

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astraira software gmbh**Booth: 120**

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Roland Denk

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www.astraira.com

astraira software is based in Munich, Germany and was founded in 2000. The aim was to develop an independent database application that would cover all aspects of obstetrics and gynaecology to the highest medical standard. Since then, astraira has established its position as market leader and pioneer in obstetric and gynecological database applications. The company's success is due to a close working relationship with leading experts worldwide and highly flexible adaption to market requirements.

BGI**Booth: 104**

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Shenzhen 518083, Guangdong Province, China

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Flora Yang

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BGI was founded in 1999 with the vision of using genomics to benefit mankind as largest genomic organization in the world, aiming to make state-of-the-art genomics accessible to clinical markets by integrating the leading technologies, including BGI's own Complete Genomics sequencing platform and expert bioinformatics resources. BGI also offers a wide portfolio of transformative genetic testing across major diseases, enabling medical providers and patients worldwide to realize the promise of genomics-based diagnostics and personalized healthcare.

CAE Healthcare**Booth: 218**

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www.caehealthcare.com

CAE Healthcare delivers 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 newest patient, imaging and interventional simulators, including Caesar, Vimedix and METIman with Vivo. Ask about our Replay and LearningSpace audiovisual solutions for center management and debrief.

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www.christieinnomed.com

Christie Innomed develops, distributes, integrates and supports innovative solutions and products that have been improving the performance of Canadian health care institutions for over 60 years. It helps hospitals and clinics optimize their medical imaging technologies and generally improve their performance in screening, diagnosing and treating the health problems of their clientele. It also provides all of the technical support needed to improve work flows and patient management, ensuring that its clientele can deliver the best care possible.

ContextVision**Booth: 221**

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Lilian Arvedson

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ContextVision's technology provides doctors with improved images, which are crucial for accurate diagnosis and treatment. ContextVision is the industry leader in medical image analysis and enhancement software, with more than 150,000 installations worldwide through its OEM customers. The company started out as an industry pioneer more than 30 years ago, and is today developing the next generation of medical imaging software for 2D/3D/4D ultrasound, MRI, X-Ray and mammography.

Cook Medical**Booth: 200**

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Elizabeth Bettin

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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.

CRC Press**Booth: 421**

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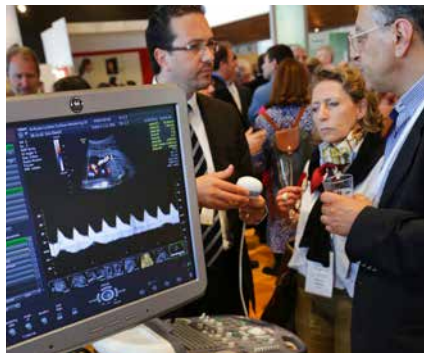
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Dynacare Next provides specialized laboratory testing to hospitals, private laboratories and medical specialties, including the Harmony™ Prenatal Test, a non-invasive prenatal test (NIPT) that detects common fetal trisomies in pregnancies of 10 weeks or more, based on directed analysis of cell-free DNA in maternal blood. It has been shown in clinical studies to detect the risk of fetal trisomies with high accuracy: combined sensitivity of 99% and a false-positive rate of less than 0.1%.



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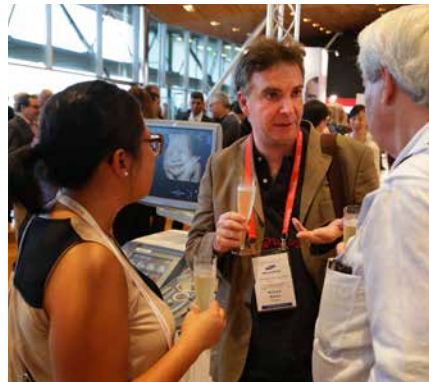
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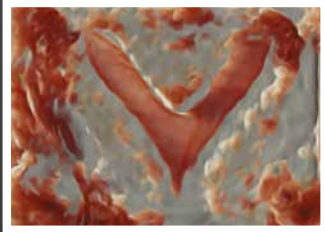
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Illumina, Inc.**Booth: 116**

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**International Society of Prenatal
Diagnosis (ISPD)**

Booth: T1



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KARL STORZ is a renowned manufacturer that is well established in all fields of endoscopy and can be considered as market leader in rigid endoscopy. The still family held company was founded in 1945 in Tuttlingen, Germany, and has grown to one with a worldwide presence and 7100 employees. KARL STORZ offers a range of both rigid and flexible endoscopes for a broad variety of applications. Today's product range also includes fully integrated concepts for the OR and servicing.

MedaPhor Ltd

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Jane Bowns

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www.medaphor.com

MedaPhor (AIM:MED) is a global provider of advanced ultrasound education and training for medical professionals. Founded in 2004, the company is headquartered in Cardiff, UK and San Diego, USA, with customers in over 16 countries across the world. ScanTrainer, Medaphor's revolutionary ultrasound simulator, offers the most realistic ultrasound simulation experience in the world. Combining 'real-feel' haptic technology with real patient scans and curriculum-based interactive learning, it offers trainees a flexible self-learning experience.



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*See page 14 for details

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www.mides.com

MIDES, the leading service provider in certified Ultrasound Probe Repair for Standard - 3D/4D and TEE- probes in Europe. With more than 20 years experience, MIDES is certified according to ISO 9001 and ISO 13485 and is able to cost-effectively repair electronic, mechanical and all other defects. The company is offering this service in more than 52 different countries worldwide and is also now specialized in repair of Endoscopes. A big range of Ultrasound systems, new and refurbished, completes the portfolio of MIDES - many of them are available in stock.

Nanosonics Limited**Booth: 213**

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Tara Croft
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Natera**Booth: 202**

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Natera is a genetic testing company that develops and commercializes non-invasive methods for analyzing DNA. Since 2009, Natera has launched seven molecular diagnostic tests, including many available through major health plans that account for more than 140 million covered lives. Natera's goal is to transform the management of genetic diseases.

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Booth: 414

Premaitha Health

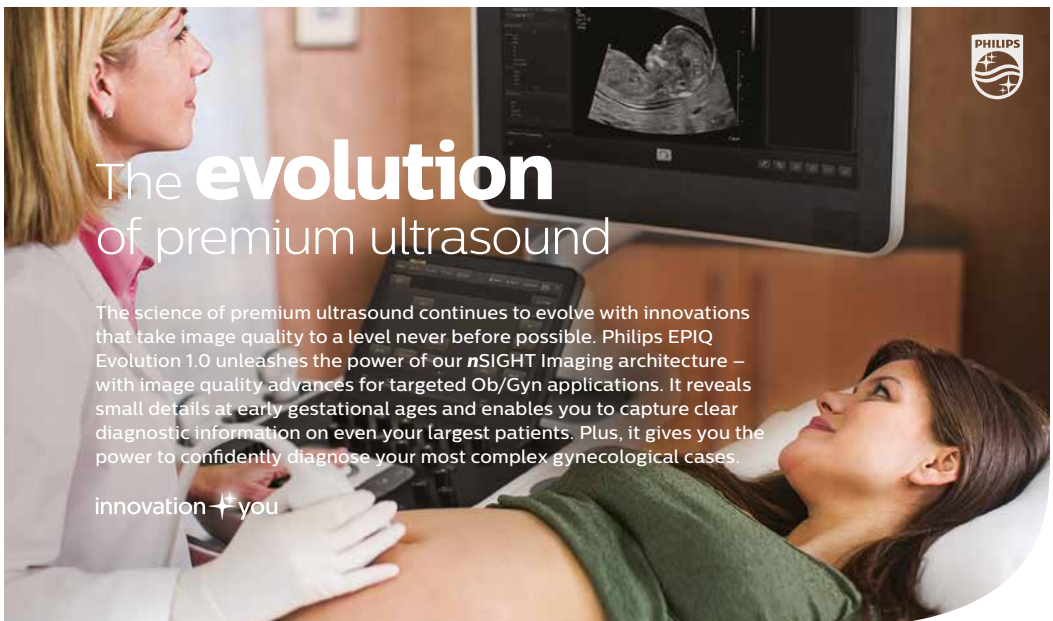
Rutherford House, Manchester Science Park,
Manchester, M15 6SZ, United Kingdom
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Ellen Pooler
iona@premaitha.com
www.premaitha.com

The IONA® test is the first non-invasive in vitro diagnostic CE marked product for prenatal screening enabling clinical laboratories to offer a regulated NIPT in-house, with results available in just 3 days. IONA® estimates the risk of a fetus having Trisomy 21, 18 and 13 from as early as 10 weeks gestation. IONA® gives pregnant women and their doctors greater confidence in the result and reduces the need for unnecessary invasive follow-up tests and the associated anxiety and stress.

Booth: 102

EXHIBITOR PROFILES



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Samsung Medison**Booth: 300****SAMSUNG MEDISON**

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Pia Park
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www.samsungmedison.com

Samsung Medison, an affiliate of Samsung Electronics, is a global medical company founded in 1985. With a mission to bring health and well-being to people's lives, the company manufactures diagnostic ultrasound systems around the world across various medical fields. Samsung Medison has commercialized the Live 3D technology in 2001 and since being part of Samsung Electronics in 2011, it is integrating IT, image processing, semiconductor and communication technologies into ultrasound devices for efficient and confidence diagnosis.

Schallware Ultrasound Simulator **Booth: 222**

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Gernot Jehle
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www.schallware.de

Schallware is manufacturer of ultrasound simulator since 2008 with about 60 clients worldwide and offers a rental system in Europe. The system is based on clinical data that means acquisition of original ultrasound data for abdominal and TV scans. The pathology database for ob/gyn comprises chapters with more than 100 patients: Gemini, umbilical cord, placenta, neuro sonography, skeleton, urogenital, echocardiography, abdomen, thorax and mamma.

Shenzhen Mindray Bio-Medical Electronics Co. Ltd. **Booth: 201**

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Heart diseases and strokes are the most common cause of death. Coronary artery disease, heart rhythm problems and congenital heart defects are increasingly found to be affecting many adults and children, making heart diseases to be the leading cause of death by 2020.

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SonoSim Inc. **Booth: 114**

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SonoSim is dedicated to improving and transforming medical care by serving as a global leader in ultrasound education and training. With its staff of leading ultrasound educators, instructional designers, content editors, scientists, and software developers, SonoSim has created the easiest, most effective, and most convenient way to learn ultrasound: The SonoSim® Ultrasound Training Solution.

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Toshiba Medical Systems

Booth: 314

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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 120 countries around the globe. Our Mission is to deliver the best quality products and services, as well as the industry's best after-sales support through long-term, customer focused partnerships.

Trice Imaging, Inc

Booth: 513

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ISUOG Lounge

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Wiley is ISUOG's publishing partner for *Ultrasound in Obstetrics and Gynecology*, available in different innovative formats such as the new Anywhere Article on Wiley Online Library or the Wiley Journal App Service. This opens up new ways for our industry partners to engage with the community and position their brands. Meet the Wiley Publishing and Commercial Sales teams at the ISUOG Lounge to discuss your publications, or how content solutions like webinars, apps, newsletters and sponsored supplements can drive your business.



Hospitality and education suites



Room 514AB

Sunday	Monday	Tuesday	Wednesday
G. DeVore (USA)	L. Platt (USA) D. Paladini (Italy)	E. Bujold (Canada) B. Benoit (France) R. Chaoui (Germany) J. Solomon (USA) G. DeVore (USA)	R. Chaoui (USA) B. Benoit (France)

Room 514C



Sunday	Monday	Tuesday	Wednesday
13:30 - 14:00 First trimester scan - Practical experience with Superb Micro-vascular Imaging (SMI) J. Cruz (Portugal)	10:15 - 10:45 Advanced Transvaginal Scanning: Ultrasound Hysteroscopy and Fly Thru Imaging B. Smith (UK)	10:15 - 10:45 Tissue Doppler Imaging and Speckle Tracking of Fetal Myocardium - What can we expect from a clinical perspective? M. Haak (Netherlands)	10:15 - 10:45 The first trimester scan, beyond dating and NT assessment: A practical approach R. Brown (Canada)
16:00 - 16:30 An imaging template for developing brain parenchyma D. Pugash (Canada)	13:30 - 14:00 MRI and Ultrasound of the Fetal Brain - Etiology of Ventriculomegaly L. Giubaud (France)	15:40 - 16:10 Advanced Transvaginal Scanning: Ultrasound Hysteroscopy and Fly Thru Imaging B. Smith (UK)	13:30 - 14:00 Experimental approach to assess Fetal Myocardial function R. Axt-Fliedner (Germany)
	15:40 - 16:10 First trimester scan - Practical experience with Superb Micro-Vascular Imaging (SMI) J. Cruz (Portugal)		15:40 - 16:10 Tissue Doppler Imaging and Speckle Tracking of Fetal Myocardium - What can we expect from a clinical perspective? M. Haak (Netherlands)



Room 515AB



Sunday	Monday	Tuesday
16:00 - 16:30 5D Study of the fetal CNS G. Rizzo (Italy)	10:15 - 10:45 5D Limb Vol - A Novel Tool for Automated Fractional Limb Volume W. Lee (USA)	10:15 - 10:45 The impact of new imaging technologies C. Lees (UK)
	15:40 - 16:10 5D Study of the fetal CNS G. Rizzo (Italy)	15:40 - 16:10 Intelligent navigation of the fetal heart: complexity made simple L. Yeo (Singapore)



Room 515C

Tuesday	Wednesday
<p>13:00 - 13:35 The clinical implementation of non-invasive prenatal testing in China - learned from the world's largest clinical experience <i>Xin Jin, BGI</i></p> <p>13:35 - 14:10 Chromosomal sequencing for miscarriage and birth defects <i>Xin Jin, BGI</i></p>	<p>13:00 - 13:35 Preimplantation Sequencing for chromosomal abnormalities and monogenic diseases <i>Xin Jin, BGI</i></p> <p>13:35 - 14:10 Comprehensive genetic testing in monogenic disorders, attention on ourselves and benefit for next generation <i>Xin Jin, BGI</i></p>



Room 516D

Sunday	Monday	Tuesday
<p>11:10 - 11:40 Beyond First Trimester Screening <i>M. Krapp (Germany)</i></p> <p>13:10 - 14:40 Live scanning with EPIQ, Affiniti & VISIQ</p> <p>16:00 - 16:30 Assessment of the fetal bowel, what to look for and why? <i>G. Gorincour (France)</i></p>	<p>10:15 - 10:45 Antenatal detection of brain abnormalities in ultrasound <i>G. Gorincour (France)</i></p> <p>12:45 - 14:20 Live scanning with EPIQ, Affiniti & VISIQ</p> <p>15:40 - 16:10 Fetal Echocardiography, what do you need? <i>M. Krapp (Germany)</i></p>	<p>10:15 - 10:45 Fetal Echocardiography, what do you need? <i>M. Krapp (Germany)</i></p> <p>12:45 - 14:20 Live scanning with EPIQ, Affiniti & VISIQ</p> <p>15:40 - 16:10 Antenatal detection of brain abnormalities in ultrasound <i>G. Gorincour (France)</i></p>



Room 516E

Monday
<p>17:45 - 18:45 Implementing infection control procedures into clinical practice <i>A. Ngu (Australia)</i></p> <p>Evening symposium followed by drinks and canapés.</p>

Satellite symposia

Satellite symposia** will take place during lunch in *Room 517D*.



Sunday 13:30 - 14:30	Monday 13:15 - 14:15	Tuesday 13:15 - 14:15	Wednesday 13:15 - 14:15
<p>13:30 - 14:00 Automated Fractional Limb Volume for Fetal Soft Tissue Assessment <i>W. Lee (USA)</i></p> <p>14:00 - 14:25 Intelligent Navigation in Fetal Imaging - What, How, and Why? <i>TBC</i></p> <p>14:25 - 14:30 Q&A</p>	<p><i>J. Solomon (USA)</i> <i>R. Pooh (Japan)</i> <i>B. Benoit (France)</i></p>	<p>Better Diagnostics of Anatomy and Function <i>C. Bilardo (Netherlands)</i></p> <p>Update on the first trimester scan - Special focus on the fetal heart <i>J. Cruz (Portugal)</i></p> <p>13:30 - 14:00 Echocardiographic Strategies to Assess Fetal Myocardial function <i>R. Axt-Fliedner (Germany)</i></p> <p>The Fetal Brain - Ultrasound and MRI as complementary tools <i>L. Guibaud (France)</i></p>	<p>Failure Rates - The Implications of NIPT Test Failures <i>L. Platt (USA)</i></p>

Industry acknowledgements

ISUOG gratefully acknowledges the following industry support for our pre-Congress courses

Supported by an unrestricted educational grant from:



Saturday	08:30 - 17:15	Ultrasound in term and preterm labour	Room 520
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ISUOG gratefully acknowledges the following industry support for our Simulation Hubs

Technical support provided by:



Monday	14:20 - 17:30	Simulation workshops	Room 517C
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** 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.

Industry live scan acknowledgements

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



Tuesday	16:10	Optimal assessment of monochorionic twins	Room 520
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Monday	08:15	Optimal screening for structural heart defects	Room 520
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SAMSUNG MEDISON

Sunday	14:40	Clinical application of 3D ultrasound in fetal anatomical assessment: collaborative approach	Room 520
Sunday	15:20	Clinical application of 3D ultrasound in gynecological anatomy: collaborative approach	
Wednesday	08:15	Assessing cardiac function and rhythm	



Monday	10:45	Multiplanar nuerosonography in practice	Room 520
Tuesday	08:15	First trimester cardiac scan	



Saturday	11:25	Cervical elastography and how it can help	Room 520
Wednesday	10:45	Practical use of new ultrasound technologies for the anatomic evaluation of the mid-trimester fetus	

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

Your questions answered at the Congress

Receive your ISUOG membership number

ISUOG has two tiers of membership; core and online. Online members can also add a print subscription of UOG. All Congress attendees who were not ISUOG members when they registered have been given 'core' membership for 2016. Welcome! Come and visit us at the ISUOG Lounge in the exhibition hall to discuss your member details.

Find out about your ISUOG membership entitlements

Turn to pages 11 & 14 for membership information, 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 options; upgrade to online to access the journal online and via the new app, or add a print subscription of UOG 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 11 October 2015 from 10.50 - 11.20, in Hall 517 at the Palais des congrès de Montréal.

Find out about ISUOG events and opportunities near you

Did you know ISUOG runs around 40 approved courses each year? In 2015 these courses have already reached 28 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 our website (isuog.org/Membership/AdvisoryMembers) 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 523 on the fifth floor of the Palais de congrès and is open as per page 7 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.

Attend a Hub session

ISUOG's Hubs are a new feature of the Congress in 2015 and will host a variety of interactive research discussions and state-of-the-art training workshops as well as a full timetable of exiting collaboration, learning and networking opportunities. You are encouraged to attend as many of the unique 'drop-in' sessions as possible, the only Hub events requiring pre-event sign up are the Simulation workshops of Monday afternoon (see below). See pages 17 and 24 of this program to see what is happening in the Hubs space each day and attend as many as you wish; this is an informal arena so you can even move between groups gathering at the same time.

Participate in a Simulation Hub

ISUOG is pleased to be hosting 3 innovative, hands-on training workshops at the World Congress which will incorporate the latest in simulation technology. The workshops run in parallel on Monday 12 (14:20-17:30), incur an extra registration fee and places are limited. Pre-event registration for these events was required however, to enquire whether any places remain, please visit Registration.

See a live scan

Sessions which include live scan demonstrations are clearly marked on the program at a glance on pages 18 - 21.

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 booked a party ticket, this will be given out at registration with your badge.

Receive your certificate of attendance and CME

Your certificate of attendance will be emailed to you after the event on completion of your Congress evaluation form, which will be emailed to your registered email address. All delegates' badges will be scanned at the door of session halls. In order to qualify for AMA PRA Category 1 Credits™ or Mainpro-M1 credits, Canadian and American delegates must ensure they are scanned into a Congress session on each day that they wish to claim for.

Receive a tax receipt for your registration

Contact registration@isuog.org

Explore the sites of Montréal

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 April 2016. Follow the instructions published at isuog.org/WorldCongress to submit your original research.

Register to attend the Congress in Rome 2016

Registration for next year's World Congress opens in January 2016. All ISUOG members can take advantage of reduced registration rates but register online at isuog.org/WorldCongress before July to receive further early bird discounts.

ISUOG Board and Committee meetings

Date	Start time	End time	Meeting (secretary)	Meeting room
Saturday 10 October	08:30	17:30	ISUOG Board meeting (1)	720
	17:30	18:00	Basic Training Task Force (1)	720
Sunday 11 October	07:30	08:30	CHD-CNS Task Force	730A
	08:30	09:00	Chairpersons briefing	520
	10:50	11:20	AGM and Awards	517CD
	11:25	12:40	Board Inductions	720
	11:15	12:15	Fetal Biometry Task Force	730A
	13:00	14:30	Advisory Members Lunch	720
	14:40	16:10	Scientific Committee (1)	720
Monday 12 October	08:15	09:15	Simulation Task Force	730A
	09:20	10:20	CME Task Force	730A
	10:45	11:45	Nominations Committee	730A
	10:45	11:45	Clinical Standards Committee	720
	12:50	14:20	Online Education Content Task Force	730A
	13:00	14:00	Young Investigators Lunch	517C
	14:30	15:30	Gold Medal Committee	720
	15:45	16:45	CNS Guidelines Task Force	730A
	16:00	17:00	Endometriosis Consensus meeting	720
	17:30	18:30	Basic Training Task Force (2)	730A
	17:45	18:45	Journal Editors	720
Tuesday 13 October	08:00	09:00	Safety Committee	720
	08:15	09:15	Courses Task Force meeting	730A
	10:20	11:50	Outreach Committee	720
	10:20	11:20	Rome Local Organising Committee	730A
	12:50	14:05	Editorial Board	720
	16:10	17:30	Special Interest Groups	517C
	17:15	18:30	Education Committee	720
Wednesday 14 October	09:00	10:00	Exhibitors' Closing meeting (Breakfast)	720
	10:20	11:50	ISUOG Board meeting (2)	720
	12:10	12:40	Scientific Committee (2)	720
	13:00	14:00	Ambassadors Lunch	517C

13,300

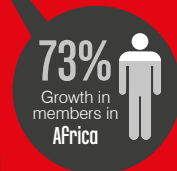


ISUOG members

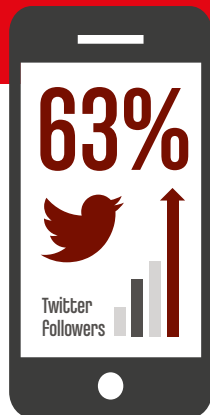
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A SNAPSHOT OF 2015

4 ISUOG EDUCATION COURSES



All statistics gathered August 2015



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