

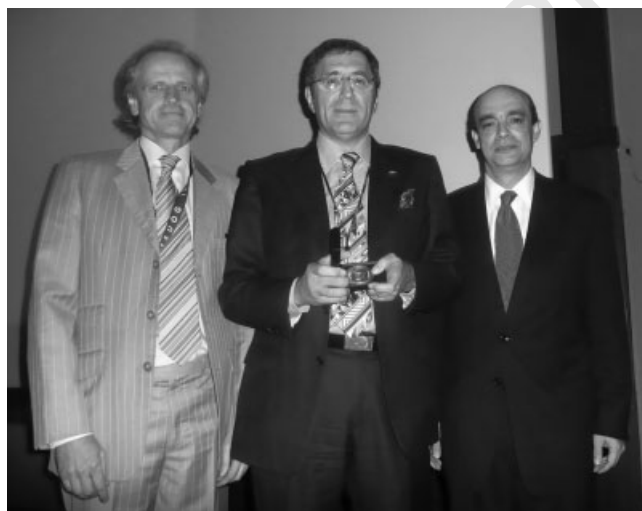
# 17<sup>th</sup> World Congress on Ultrasound in Obstetrics and Gynecology, 7–11 October 2007, Florence, Italy: presentations and awards

## Presentation of the Ian Donald Gold Medal to Gianluigi Pilu

The Ian Donald Gold Medal was created to recognize individuals who have made extraordinary contributions to Ultrasound in Obstetrics and Gynecology and our Society. The selection committee for this award is unique. It is comprised only of previous Ian Donald Gold Medal recipients. The wisdom of this idea belongs to Professor Karel Marsal and had the endorsement of the Founder of the Society, Professor Stuart Campbell. This year, the committee has chosen Gianluigi Pilu as the recipient of this prestigious recognition.

Born in Bologna, in August 1956, he is the son of Demetrio Pilu and Jones Monteguti. Gianluigi Pilu graduated magna cum laude as a physician and surgeon from the University of Bologna, the first university in the western world. He learned anatomy, the oldest of the basic sciences and the one essential for ultrasound imaging, in the tradition established by Vessalius, who conducted the first dissections of humans in this amphitheatre in Bologna. Gianluigi completed his residency in obstetrics and gynecology in 1984 and then traveled to the United States for a fellowship in maternal-fetal medicine at Yale University.

It was then that I first met Gianluigi Pilu, who became a part of an exceptional team under the leadership of John Hobbins. It was then, also, that a special friendship developed between Phillippe Jeanty, Gianluigi and me. We worked together on a number of scientific projects and learned from each other about ultrasound, fetal



Kurt Hecher, Gianluigi Pilu and Roberto Romero.

development and much more. The frontier at that time was the prenatal diagnosis of congenital anomalies with ultrasound. Gianluigi brought a unique insight into the anatomy and pathology of the central nervous system as well as fetal echocardiography. Aware of the need to share with others what was known, we spent a year scanning in the morning and afternoon and working at night and weekends to produce a book. Gianluigi continued to teach us all about fetal anatomy with his particular interest in the central nervous system. His opinions and original contributions are classics in the literature. He published books with Juriy Wladimiroff and colleagues David Nyberg and Dolores Pretorius. The bond and friendship forged by sleepless nights in front of a computer and intellectual discourse and debate has lasted a lifetime.

We have been around the world together, mostly working, but also having fun. The accompanying photograph shows us at Phillippe Jeanty's farm in Nashville, Tennessee, with his lumber cutting machine, which transforms trees into boards, very noisily. Gianluigi is at the controls, I have the protective headphones and our subject is Phillippe Jeanty, without informed consent, volunteering for surgery.

Upon his return to Italy, Gianluigi married Antonella, also an obstetrician and gynecologist with a special interest in fetal echocardiography. Dottoressa Perollo has been a working partner to Gianluigi and has also made many individual contributions in this field.

Besides being on the faculty at the University of Bologna, Gianluigi is a man of many talents and gifts. For example, Gianluigi Pilu was a recurrent name in science fiction in the 1970s and 1980s. He wrote several pieces, which were award winning, and the famous literary magazine, Gallassia, devoted a special issue to his writings. He wrote two radio dramas, which were aired on Italian



1 radio, and his work in science fiction was chosen for  
 2 illustration by professional graphic artists. This leads me  
 3 to another one of his gifts, one that I suspect is linked  
 4 to his talent with ultrasound. I have always believed  
 5 that we sonographers are photographers at heart with an  
 6 expensive camera. Gianluigi has produced some of the  
 7 most exquisite images that I have ever seen in ultrasound  
 8 and, in his hands, ultrasound becomes an art. Many years  
 9 ago, when working on a talk about the old and the new  
 10 obstetrics, Gianluigi offered to draw some pictures to  
 11 illustrate the contrast between the old obstetrician armed  
 12 with a stethoscope, a tape measure and forceps, and the  
 13 new one with a fetal heart rate monitor, an ultrasound  
 14 machine and a scalpel. There are few of us who have a  
 15 *nome de plume*. Gianluigi has one, not as a writer, but  
 16 as a cartoonist. His name is Felix Klipperfell and you, the  
 17 readers of our *White Journal*, have seen his work.

18 On behalf of the Ian Donald Gold Medal Committee,  
 19 of President Kurt Hecher, the Board, the Society and  
 20 the ultrasound community worldwide, I would like to  
 21 congratulate Gianluigi Pilu for being awarded the 2007  
 22 Ian Donald Gold Medal.

23  
 24 Roberto Romero  
 25 *Detroit, MI, USA*  
 26

### 28 Presentation of the Ian Donald Medal for 29 Technical Development to Bjørn Angelsen

31 The Ian Donald Medal for Technical Merit is given  
 32 to acknowledge the outstanding contribution by an  
 33 individual to technical development in the field of obstetric  
 34 and gynecological ultrasound. It is an honor for me to  
 35 introduce the 2007 winner of this award.

36 Bjørn A. J. Angelsen was born in Vestvågøy, Norway,  
 37 in 1946. He received his Masters Degree in Electrical  
 38 Engineering in 1971 and his PhD in Electrical Engineering  
 39 in 1977, from the Norwegian Institute of Technology,  
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 59 Bjorn Angelsen and Sturla Eik-Nes.

60 Trondheim, Norway, now the Norwegian University of  
 61 Science and Technology (NTNU). His PhD research was  
 62 on optimizing ultrasound Doppler measurements of blood  
 63 velocities in deep vessels and the heart so that clinically  
 64 useful measurements could be obtained. In this work  
 65 he applied new theories on the modeling of ultrasound  
 66 wave propagation and scattering in tissue and blood,  
 67 and optimized the signal processing, thus achieving high  
 68 sensitivity in equipment that was built for practical clinical  
 69 use. The instrument he developed was the first to combine  
 70 pulsed wave Doppler measurements for spatial resolution  
 71 and continuous wave Doppler measurements to measure  
 72 the high velocities in valvular and septal defects of  
 73 the heart. Angelsen established close collaboration with  
 74 clinical researchers in the field of cardiology and pediatric  
 75 cardiology. The equipment he developed formed the basis  
 76 for a new era and is now commonly used in clinical  
 77 cardiology worldwide.

78 In 1979, the equipment was also employed to develop  
 79 the first duplex scanner used in obstetrics. This made  
 80 the assessment of fetal blood flow possible, laying the  
 81 foundation for the development of fetal medicine. The  
 82 equipment was manufactured and further developed  
 83 by the Norwegian company Vingmed Sound AS (now  
 84 GE Vingmed). Angelsen also played a central role in  
 85 developing the first annular array color Doppler imaging  
 86 instrument which was introduced into the market in 1986.  
 87 The symmetrically focused beam of the annular array  
 88 provided special sensitivity for Doppler measurements  
 89 and also special spatial resolution. These features made  
 90 the instrument very useful for imaging the fetal heart.  
 91 Angelsen's team was involved in the development of the  
 92 Doppler systems used in most machines in the 80s, such  
 93 as Aloka, Hitachi, Irex and Acoustic Imaging. Towards  
 94 the end of the 90s, he further improved the annular array  
 95 transducer system to provide extreme three-dimensional  
 96 resolution of the early embryo.

97 Angelsen is characterized by his close collaboration  
 98 with clinicians and by his theoretical and experimental  
 99 skills that have provided equipment that is technically  
 100 optimized for addressing clinical problems. At NTNU  
 101 he has established an educational program for medical  
 102 imaging with a focus on ultrasound imaging. With his  
 103 research group of skilled engineers established 25 years  
 104 ago, Angelsen has been working for both industry  
 105 and university research and is still very active in the  
 106 development of ultrasound technology to be used in  
 107 medical practice.

108 It is with great pleasure that I present the 2007 Gold  
 109 Medal for Technical Merit to Bjørn Angelsen.

110 Sturla Eik-Nes  
 111 *Trondheim, Norway*  
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### 114 Free communication acknowledgments

115  
 116  
 117 The following free communications, presented during the  
 118 17<sup>th</sup> World Congress on Ultrasound in Obstetrics and

1 Gynecology, were each selected as the best oral and poster  
2 presentations in their subject area. Selection was according  
3 to a combination of the anonymous peer-review score for  
4 abstracts in advance of the Congress and the scores for  
5 presentation and/or scientific merit allocated on-site by a  
6 panel of judges.

7 Full abstracts to these titles may be found in  
8 *Ultrasound in Obstetrics and Gynecol* 2007; 30(4). The  
9 authors' valuable contribution to the scientific program is  
10 gratefully acknowledged.

## 14 Oral Communications

17 Growth rate between first and second trimester and the risk  
18 of adverse pregnancy outcome (OC02)

19 N. G. Pedersen<sup>1</sup>, K. R. Wøjdemann<sup>1</sup>, T. Scheike<sup>2</sup>,  
20 A. Tabor<sup>1</sup>. <sup>1</sup>*Rigshospitalet, Copenhagen, Denmark*,  
21 <sup>2</sup>*University of Copenhagen, Denmark*

22 Effect of maternal glucose loading on fetal blood flow  
23 distribution (OC45)

24 G. Haugen, J. Bollerslev, T. Henriksen.  
25 *Rikshospitalet-Radiumhospitalet Medical Centre,*  
26 *University of Oslo, Norway*

27 Diagnostic accuracy and potential limitations of transvaginal  
28 sonography for bladder endometriosis (OC06)

29 L. Manuzzi, G. Villa, M. Guerrini, M. Mabrouk,  
30 P. Pollastri, R. Seracchioli, L. Savelli. *Department of*  
31 *Obstetrics and Gynecology, University of Bologna, Italy*

32 Characteristics and outcome of prenatally diagnosed fetal  
33 omphalocele (OC14)

34 C. E. Kleinrouweler, C. M. Bilardo, C. F. Kuijper, E. Pajkrt.  
35 *Academic Medical Centre Amsterdam, Netherlands*

36 Postmortem magnetic resonance imaging of the fetus – an  
37 important adjunct to the formal autopsy (OC21)

38 E. H. Whitby<sup>1</sup>, M. N. Paley<sup>1</sup>, P. D. Griffiths<sup>1</sup>, M. Cohen<sup>2</sup>.  
39 <sup>1</sup>*University of Sheffield, United Kingdom*, <sup>2</sup>*Sheffield*  
40 *Childrens Hospital, United Kingdom*

42 Effects of medical therapy on deep endometriosis: a  
43 sonographic study (OC28)

44 C. Exacoustos, M. E. Romanini, A. Amadio, C. Amoroso,  
45 B. Szabolcs, E. Zupi, D. Arduini. *Department of Surgery,*  
46 *Obstetrics and Gynecology Unit, University of Rome "Tor*  
47 *Vergata", Italy*

48 Miscarriage after a normal scan at 12–14 gestational weeks  
49 in women at low risk of carrying a fetus with chromosomal  
50 anomaly according to nuchal translucency screening (OC56)

51 M. Westin<sup>1</sup>, K. Källén<sup>2</sup>, S. Saltvedt<sup>3</sup>, H. Almstrom<sup>4</sup>,  
52 C. Grunewald<sup>3</sup>, L. Valentin<sup>1</sup>. <sup>1</sup>*Department of Obstetrics*  
53 *and Gynecology, Lund University, Malmö University*  
54 *Hospital, Malmö, Sweden*, <sup>2</sup>*Tornblad Institute, Lund*  
55 *University, Lund, Sweden*, <sup>3</sup>*Department of Obstetrics and*  
56 *Gynecology, South Stockholm General Hospital,*  
57 *Stockholm, Sweden*, <sup>4</sup>*Department of Obstetrics and*  
58 *Gynecology, Danderyd Hospital, Stockholm, Sweden*

59 Pain and bleeding in the prediction of initial ultrasound  
findings and first trimester pregnancy outcome (OC64,  
OC65, OC66)

C. Bottomley, E. J. Kirk, F. Mukri, T. Bourne, C. Schoeb,  
A. Papageorghiou. *Early Pregnancy Unit, St George's*  
*University of London, United Kingdom*

Periventricular brain cysts: fetal imaging and postna-  
tal/postmortem findings (OC73)

A. Y. Lausman<sup>1</sup>, J. Keunen<sup>1</sup>, J. C. Kingdom<sup>1</sup>, P. Shannon<sup>1</sup>,  
E. Widjaja<sup>2</sup>, G. Ryan<sup>1</sup>, D. Chitayat<sup>1</sup>, C. Raybaud<sup>2</sup>, A. Toi<sup>1</sup>,  
M. Rohrbach<sup>2</sup>, S. Blaser<sup>2</sup>. <sup>1</sup>*Mount Sinai Hospital, Canada*,  
<sup>2</sup>*Hospital for Sick Children, Canada*

Association between fetal gender and nuchal translucency  
thickness (OC81)

L. Rode<sup>1</sup>, K. R. Wøjdemann<sup>1</sup>, M. Christiansen<sup>2</sup>, A. Tabor<sup>1</sup>,  
K. Sundberg<sup>1</sup>. <sup>1</sup>*Department of Fetal Medicine, Copenhagen*  
*University Hospital, Rigshospitalet, Denmark*, <sup>2</sup>*Department*  
*of Clinical Biochemistry, Statens Serum Institute,*  
*Copenhagen, Denmark*

Women's satisfaction with the OSCAR (One-Stop Clinic  
Assessment of Risk) model of first-trimester combined  
screening (OC31)

J. M. Johnson, R. Kohut, R. Simrose, D. Dewey,  
G. Connors, J. Pollard, D. Jones, I. Lange. *University of*  
*Calgary, Canada*

Establishing the reliability and validity of a new technique  
that facilitates automated measurements of follicular diame-  
ter and volume (OC86, OC87)

N. J. Raine-Fenning<sup>1</sup>, K. Jayaprakasan<sup>1</sup>, J. S. Clewes<sup>1</sup>,  
I. Joergner<sup>2</sup>, S. Dehghani Bonaki<sup>2</sup>, S. Chamberlain<sup>1</sup>,  
L. Devlin<sup>1</sup>, H. Priddle<sup>1</sup>, I. R. Johnson<sup>1</sup>. <sup>1</sup>*School of Human*  
*Development, University of Nottingham, United Kingdom*,  
<sup>2</sup>*GE Healthcare, Zipf, Austria*

Fetuses with Down syndrome have an enlarged anterior  
fontanelle in the second trimester of pregnancy (OC100)

D. Paladini, G. Sglavo, I. Penner, G. Pastore, C. Nappi.  
*University Federico II of Naples, Italy*

Ventricular performance in the fetus with hypoplastic left  
heart syndrome (OC108)

A. Szwast, Z. Tian, M. McCann, D. D. Donaghue,  
J. Rychik. *The Fetal Heart Program at The Children's*  
*Hospital of Philadelphia, United States*

Staging by cardiac function in twin–twin transfusion  
syndrome: a descriptive study (OC114)

J. Stirnemann<sup>1</sup>, F. Proux<sup>1</sup>, J. C. Fouron<sup>2</sup>, Y. Ville<sup>1</sup>.  
<sup>1</sup>*Obstetrics and Gynecology, CHI Poissy Saint Germain,*  
*University Versailles Saint Quentin, France*, <sup>2</sup>*Cardiology,*  
*Hopital Sainte Justine, Canada*

Endometrial polyps, a frequent diagnosis at sonohysterogra-  
phy – do they cause abnormal uterine bleeding? (OC121)

E. Dreisler, S. Stampe Sorensen. *Glostrup Hospital,*  
*University of Copenhagen, Denmark*

Effectiveness of the integrated test in Down syndrome  
screening (OC126)

P. P. Pandya<sup>1</sup>, W. Huttly<sup>2</sup>, P. Jones<sup>1</sup>, N. Wald<sup>2</sup>, C.  
H. Rodeck<sup>1</sup>. <sup>1</sup>*University College London Hospitals, United*  
*Kingdom*, <sup>2</sup>*Wolfson Institute of Preventative Medicine,*  
*United Kingdom*

What is the recurrence rate of postmenopausal bleeding in  
women who have a thin endometrium during a first episode  
of postmenopausal bleeding? (OC130)

- 1 A. Timmermans<sup>1</sup>, H. C. Van Doorn<sup>2</sup>, B. C. Opmeer<sup>3</sup>, B. W.  
2 J. Mol<sup>3</sup>. <sup>1</sup>UMC Utrecht, Netherlands, <sup>2</sup>Erasmus Medical  
3 Centre Rotterdam, Netherlands, <sup>3</sup>Academic Medical Center,  
4 Netherlands
- 5 Assessing the risk of spontaneous preterm birth using  
6 ultrasonic cervical length measurement and maternal  
7 characteristics (OC140)
- 8 G. C. S. Smith<sup>1</sup>, E. Celik<sup>2</sup>, M. To<sup>2</sup>, E. Fonesca<sup>2</sup>, K.  
9 H. Nicolaides<sup>2</sup>. <sup>1</sup>Department of Obstetrics and  
10 Gynaecology, University of Cambridge, United Kingdom,  
11 <sup>2</sup>Harris Birthright Research Centre for Fetal Medicine,  
12 King's College Hospital Medical School, London, United  
13 Kingdom
- 14 Gel-instillation hydrososonography in the evaluation of the  
15 uterine cavity (OC149, OC150)
- 16 T. Van den Bosch, E. Domali, V. Vandenbroucke,  
17 J. Deprest, D. Timmerman, D. Van Schoubroeck. *University  
18 Hospitals K.U. Leuven, Belgium*
- 19 The first prospective evaluation of the IOTA phase  
20 1 mathematical models to predict the character of an adnexal  
21 mass (OC155)
- 22 C. Van Holsbeke<sup>1</sup>, B. Van Calster<sup>2</sup>, L. Valentin<sup>3</sup>, A. Testa<sup>4</sup>,  
23 E. Domali<sup>1</sup>, C. Lu<sup>5</sup>, S. VanHuffel<sup>2</sup>, D. Timmerman<sup>1</sup>.  
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25 Electrical Engineering, ESAT-SCD, Katholieke Universiteit  
26 Leuven, Belgium, <sup>3</sup>Department of Obstetrics and  
27 Gynecology, University Hospital Malmö, Sweden, <sup>4</sup>Istituto  
28 di Clinica Ostetrica e Ginecologica, Università Cattolica del  
29 Sacro Cuore, Roma, Italy, <sup>5</sup>Department of Computer  
30 Science, Aberystwyth, University of Wales, United Kingdom
- 31 Can prenatal ultrasound detect the effects of in-utero alcohol  
32 exposure? (OC182)
- 33 M. Kfir<sup>1</sup>, L. Yevtushok<sup>2</sup>, S. Onishchenko<sup>2</sup>, W. Wertelecki<sup>3</sup>,  
34 L. Bakhireva<sup>1</sup>, C. D. Chambers<sup>1</sup>, K. L. Jones<sup>1</sup>, A. D. Hull<sup>1</sup>.  
35 <sup>1</sup>University of California, San Diego, United States, <sup>2</sup>OMNI  
36 Center, Rivne, Ukraine, <sup>3</sup>University of South Alabama,  
37 United States
- 38 Intrapartum sonographic assessment of fetal head rotation  
39 in the second stage of labor (OC192)
- 40 T. Ghi, M. Segata, G. Simonazzi, S. Gabrielli, A. Perolo,  
41 G. Pelusi, N. Rizzo, G. Pilu. *University of Bologna, Italy*
- 42 The contribution of CNTI-SonoVue in the classification of  
43 adnexal masses as benign or malignant: a multicenter study  
44 (OC196)
- 45 A. C. Testa<sup>1</sup>, E. Fruscella<sup>1</sup>, D. Timmerman<sup>2</sup>, C. Van  
46 Holsbeke<sup>2</sup>, L. Savelli<sup>3</sup>, E. Ferrazzi<sup>4</sup>, F. P. G. Leone<sup>4</sup>,  
47 H. Marret<sup>5</sup>, C. Exacoustos<sup>6</sup>, G. De Placido<sup>7</sup>, D. Bokor<sup>8</sup>,  
48 G. Ferrandina<sup>1</sup>, L. Valentin<sup>9</sup>. <sup>1</sup>Catholic University of the  
49 Sacred Heart, Rome, Italy, <sup>2</sup>University Hospitals KU  
50 Leuven, Belgium, <sup>3</sup>University of Bologna, Italy, <sup>4</sup>University  
51 of Milan, Italy, <sup>5</sup>Unité INSERM, France, <sup>6</sup>University of  
52 "Tor Vergata" Rome, Italy, <sup>7</sup>University of Naples, Italy,  
53 <sup>8</sup>Bracco S.p.A, Italy, <sup>9</sup>University of Lund, Sweden
- 54 Elevated total vascular resistance more than persisting  
55 bilateral notches of uterine artery Doppler waveforms  
56 identifies patients at risk of pregnancy complications  
57 (OC215)
- 58 B. Vasapollo, G. P. Novelli, H. Valensise. *Tor Vergata  
59 University, Italy*
- 60 Experience FETO group with tracheal occlusion for left sided  
61 diaphragmatic hernia at variable gestational age (OC217,  
62 OC218)
- 63 J. Deprest<sup>1</sup>, J. Jani<sup>1</sup>, E. Gratacos<sup>2</sup>, K. Nicolaides<sup>3</sup>,  
64 S. Salcedo<sup>2</sup>, K. Allegaert<sup>1</sup>, A. Greenough<sup>3</sup>. <sup>1</sup>University  
65 Hospitals Leuven, Belgium, <sup>2</sup>Hospital Clinic, Barcelona,  
66 Spain, <sup>3</sup>Queen Mother's Hospital, United Kingdom
- 67 Ultrasound-guided tru-cut biopsy in the management of  
68 advanced abdominopelvic tumors (OC229)
- 69 D. Fischerova<sup>1</sup>, D. Cibula<sup>1</sup>, P. Dunder<sup>2</sup>, M. Zikan<sup>1</sup>,  
70 P. Freitag<sup>1</sup>, J. Slama<sup>1</sup>, P. Calda<sup>1</sup>. <sup>1</sup>Oncogynecological  
71 Center, First Medical School, Charles University, Prague,  
72 Czech Republic, <sup>2</sup>Institute of Pathology, First Medical  
73 School, Charles University, Prague, Czech Republic
- 74 Prenatal diagnosis of hemivertebra (OC242)
- 75 M. Segata, M. Piva, T. Ghi, G. Simonazzi, N. Rizzo,  
76 G. Pilu. *Prenatal Unit of Obstetrics and Gynecology  
77 Department, University of Bologna Italy*
- 78 Prenatal prediction of mortality and morbidity in congenital  
79 diaphragmatic hernia using ultrasound (OC269, OC270,  
80 OC271)
- 81 J. Jani<sup>1</sup>, C. F. A. Peralta<sup>2</sup>, R. Ruano<sup>3</sup>, A. Benachi<sup>3</sup>,  
82 E. Done<sup>1</sup>, K. H. Nicolaides<sup>2</sup>, J. Deprest<sup>1</sup>. <sup>1</sup>University  
83 Hospitals Leuven, Belgium, <sup>2</sup>King's College Hospital,  
84 United Kingdom, <sup>3</sup>Hôpital Necker-Enfants Malades, France
- 85 Is women's choice of testing during pregnancy affected by  
86 mode of conception? (OC276)
- 87 A. C. Gjerris<sup>1</sup>, M. Christiansen<sup>2</sup>, A. Loft<sup>3</sup>, A. Tabor<sup>1</sup>.  
88 <sup>1</sup>Department of Fetal Medicine, Rigshospitalet, Copenhagen  
89 University Hospital, Denmark, <sup>2</sup>Department of Clinical  
90 Biochemistry, Statens Serum Institute, Copenhagen,  
91 Denmark, <sup>3</sup>The Fertility Clinic, Rigshospitalet, Copenhagen  
92 University Hospital, Denmark
- 
- 93 **Oral Posters**
- 94 First trimester arterial wave analysis compared with first  
95 trimester uterine artery Doppler as a tool for predicting  
96 pre-eclampsia (OP01.02)
- 97 A. A. A. Khalil, D. Cooper, K. Harrington. *Homerton  
98 University Hospital, United Kingdom*
- 99 Clinically silent extracranial and intracranial hemor-  
100 rhages – are these a significant pathology or not? (OP03.11)
- 101 L. I. Wallis<sup>1</sup>, P. D. Griffiths<sup>1</sup>, M. F. Smith<sup>2</sup>, N. P. Davies<sup>3</sup>,  
102 M. N. J. Paley<sup>1</sup>, E. H. Whitby<sup>1</sup>. <sup>1</sup>The University of Sheffield,  
103 United Kingdom, <sup>2</sup>Trent Neonatal Unit, United Kingdom,  
104 <sup>3</sup>Mayo Clinic, United States
- 105 Transvaginal ultrasound in treatment follow-up of gesta-  
106 tional trophoblastic tumors (GTT) (OP05.08)
- 107 D. Spagnolo, L. Valsecchi, C. Gentile, E. Garavaglia,  
108 S. Montoli, P. Cavoretto, G. Mangili. *IRCCS San Raffaele  
109 Hospital, Italy*
- 110 Prenatal detection of major congenital heart malformations  
111 in Singapore: a comparison of public and private institutions  
112 from 1995–2004 (OP06.09)
- 113 K. B. L. Tan, G. S.H. Yeo. *National Birth Defects Registry,  
114 Singapore*
- 115 3D ultrasound assessment of placenta volume in the  
116 first trimester in pregnancies from assisted reproduction  
117 technologies (ART) (OP07.06)
- 118

1	S. Boito <sup>1</sup> , E. Taricco <sup>1</sup> , L. Mandia <sup>1</sup> , D. Consonni <sup>2</sup> , T. Radaelli <sup>1</sup> , V. Cozzi <sup>1</sup> , I. Cetin <sup>1</sup> , G. Pardi <sup>1</sup> . <sup>1</sup> Institute of Obstetrics and Gynecology, IRCCS Policlinico, Mangiagalli and Regina Elena, University of Milan, Italy,	57
2		58
3		59
4	<sup>2</sup> Epidemiology Unit, IRCCS Policlinico, Mangiagalli and Regina Elena, University of Milan, Italy	60
5		61
6		62
7	Sonographic nomograms of the fetal calf between 15–42 weeks' gestation: use of a combination of two- and three-dimensional sonography (OP21.11)	63
8		64
9	R. Hershkovitz <sup>1</sup> , R. Tepper <sup>2</sup> . <sup>1</sup> Soroka University Medical Center, Faculty Of Health Sciences, Ben Gurion University, Israel, <sup>2</sup> Meir Medical Center, Sackler Faculty of Medicine, Tel Aviv University, Kfar-Saba, Israel	65
10		66
11		67
12		68
13	Ultrasound normal images of the abdomen early after Cesarean section (OP22.11)	69
14		70
15	J. Nizard, M. Koskas, Y. Ville. <i>CHI</i> <i>Poissy-St-Germain-en-Laye, France</i>	71
16		72
17	Placental volume measurement by 3D ultrasound in the first trimester and prediction of fetal growth restriction (OP08.11)	73
18		74
19	B. Meurer <sup>1</sup> , C. Knie <sup>1</sup> , N. C. Hart <sup>1</sup> , J. Siemer <sup>1</sup> , P. A. Fasching <sup>1</sup> , M. W. Beckmann <sup>1</sup> , M. Schaelike <sup>2</sup> , T. W. Goecke <sup>1</sup> , R. L. Schild <sup>1</sup> . <sup>1</sup> University Hospital Erlangen, Germany, <sup>2</sup> Prenatal Medicine and Genetics, Nuremberg, Germany	75
20		76
21		77
22		78
23		79
24	Fetal esophagus: Could the space between trachea and aorta be used in routine sonography? (OP09.08)	80
25		81
26	J. E. Develay-Morice <sup>1</sup> , G. Rathat <sup>1</sup> , M. Hoffet <sup>1</sup> , P. Mares <sup>1</sup> , N. Frandji-barbier <sup>2</sup> , C. Fredouille <sup>3</sup> , H. Allal <sup>4</sup> , A. Couture <sup>4</sup> , M. Duyme <sup>5</sup> . <sup>1</sup> Hopital Carremeau, Nimes, France, <sup>2</sup> College Francais d'Echographie Fitale, France, <sup>3</sup> Hopital St Antoine, Paris, France, <sup>4</sup> Hopital Lapeyronie, Montpellier, France, <sup>5</sup> Université de Montpellier 1, France	82
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