

20th World Congress on Ultrasound in Obstetrics and Gynecology



10–14 October 2010, Prague, Czech Republic



20th World Congress on Ultrasound in Obstetrics and Gynecology, 10 - 14 October 2010, Prague, Czech Republic: presentations and awards

Top 5 Abstracts winner:

Analysis of brain structure by MRI and neurodevelopment in preterm born infants with and without IUGR at 12–18 months of age (OC 01.04&5)

M. Sanz-Cortes (Spain)

Alfred Kratochwil award:

Intra- and inter-observer agreement in the assessment of three-dimensional ultrasound volumes of adnexal masses using IOTA criteria (OC19.02)

P. Sladkevicius (Sweden)

Young Investigator prize:

Vascular properties and vascular function at early school age following IUGR with abnormal fetal blood flow and very preterm birth (OC22.05)

J. Brodzki (Sweden)

Best Oral Communications:

The following free communications, presented during the 20th World Congress on Ultrasound in Obstetrics and Gynecology, were each selected as the best oral communication presentation in their subject area. Selection was according to a combination of the anonymous peer-review score for abstracts in advance of the Congress and the scores for presentation and/or scientific merit allocated on-site by a panel of judges.

Full abstracts to these titles may be found in *Ultrasound in Obstetrics and Gynecology* 2010; 36, Suppl. 1. The authors' valuable contribution to the scientific program is gratefully acknowledged.

CNS

Early (15-20 week) ultrasound findings in type-2 cobblestone cortex lissencephaly (OC12.07)

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Toronto, ON, Canada; ⁴Neuropathology, Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada

Early pregnancy

Risk factors for tubal versus non-tubal ectopic pregnancies: a multicentre case series (OC04.03)

H.L. May-Miller¹, C. Bottomley², E. Kirk³, K. Hayes¹, C. Stalder³, D. Timmerman⁴, T. Bourne³

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Obstetrics and Gynaecology, University Hospitals, KU Leuven, Leuven, Belgium

Fetal anomalies

Maxillary protrusion in fetuses with facial clefts, measured with the MNM angle (OC24.03)

E. de Jong-Pleij¹, L.R. Pistorius², L.S. Ribbert¹, E. Tromp¹, C.M. Bilardo³

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Fetal growth

Axonal loss and cognitive outcome at five years in term small-for-gestational age infants with normal umbilical artery (OC01.06)

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²Ophthalmology, Hospital Universitario Miguel Servet, Zaragoza, Spain; ³Pediatrics, Hospital Clinico Universitario Zaragoza, Zaragoza, Spain; ⁴Psychology, Aragon Health Science Institute, Zaragoza, Spain

Fetal heart

Fetal interrupted aortic arch: 2D-4D echocardiography, associations and outcome (OC02.03)

V. De Robertis¹, G. Rembouskos¹, G. Campobasso¹, A. Tempesta¹, N. Volpe², P. Volpe¹

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Fetal therapy

Childhood cardiac function following severe fetal red cell isoimmunization (OC20.05)

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General gynecology

Rectal deep endometriosis: transrectal approach with transvaginal probe to assess the infiltration of rectal mucosa (OC10.01)

C. Exacoustos, E. Zupi, B. Szabolcs, V. Romeo, C. Amoroso, M. Romanini, D. Arduini
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Gynecology screening

Expectant management for sonographically benign cysts in asymptomatic premenopausal women: long term follow-up study (OC21.01)

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Imaging in oncology

Ultrasound evaluation in preoperative assessment of extension of disease and prediction of optimal cytoreduction in ovarian cancer: a prospective trial (OC27.04)

A.C. Testa¹, M. Ludovisi¹, M. Malaggesi², A. Di Legge¹, F. Mascilini¹, M. Durante², I. Vercillo², B. Virgilio¹, G. Scambia¹, G. Ferrandina²

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Imaging technologies

Placental and fetal oxygenation assessment in a rat model of intra uterine growth restriction with BOLD contrast in MRI (OC11.01)

A. Sabine^{1,2}, B. Deloison^{1,2}, S. Nathalie^{2,3}, C. Charles-Andre^{2,3}, V. Yves^{1,2}, C. Olivier^{2,3}, L.J. Salomon^{1,2}

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SPIO-enhanced MR imaging study of placental perfusion in a rat model of intrauterine growth restriction (OC11.02)

B. Deloison^{1,2}, S. Aimot^{1,2}, N. Siauve^{2,4}, D. Balvay^{2,3}, R. Thiam^{2,3}, C. Cuenod^{2,4}, Y. Ville^{1,3}, O. Clement^{2,4}, L.J. Salomon^{1,2}

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Maternal fetal Doppler

High-amplitude inspiratory movement in the fetus obstructs the inferior vena cava (IVC) enhancing upper body gas transport (OC18.02)

M.K. Nyberg¹, S.L. Johnsen², T. Kiserud^{1,2}

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Multiple pregnancy

Incidence and clinical implications of unintended septostomy after fetoscopic laser therapy for twin– twin transfusion syndrome (OC07.05)

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Obstetrical management

A new method for prediction of preterm birth (PTB): fetal zone enlargement (OC17.03)

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Ovarian pathology

Ultrasound in diagnosis of new and recurrent borderline ovarian tumors (OC01.03)

D. Fischerova¹, D. Franchi², A. Testa³, L.I. Valentin⁴, L. Savelli⁵, A. Lissoni⁶, R. Fruscio⁶, C. Van Holsbeke^{10,7}, E. De Jonge⁷, S. VanHuffel⁸, T. Bourne^{10,9}, B. Van Calster⁸, F. Amant¹⁰, D. Timmerman¹⁰

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Pelvic floor

Association between transperineal ultrasound findings and anal incontinence in a follow-up study of anal sphincter tears (OC16.01)

D.V. Valsky, S.M. Cohen, M. Lipschuetz, B. Messing, R. Drai-Hassid, D. Hochner-Celnikier, S. Yagel

Obstetrics and Gynecology, Hadassah-Hebrew University Medical Centers, Mt. Scopus, Jerusalem, Israel

Reproductive medicine

Assessment of endometrial and subendometrial blood flow in women undergoing frozen embryo replacement and its relationship to conception (OC13.03)

A. Nandi, K. Jayaprakasan, J. Clewes, N. Raine-Fenning

School of Clinical Sciences, Division of Human Development, University of Nottingham, Nottingham, United Kingdom

Screening for aneuploidy

Increased nuchal translucency and normal karyotype: perinatal and pediatric outcome at 2 years of age (OC06.05)

R. Mula¹, A. Goncá¹, M. Arigita¹, M. Bennàsar¹, F. Botet², A. Borrell¹, E. Gratacós¹

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Uterine pathology

Differentiation of uterine pathology by transvaginal elastography: preliminary results

(OC08.01)

J. Veldman¹, C. Van Holsbeke¹, E. Werbrouck¹, T. Bourne^{1,2}, D. Timmerman¹

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Best Short Oral Presentations (oral posters):

The following free short oral presentations, made during the 20th World Congress on Ultrasound in Obstetrics and Gynecology, were each selected as the best oral poster presentations in their subject area. Selection was according to a combination of the anonymous peer-review score for abstracts in advance of the Congress and the scores for presentation and/or scientific merit allocated on-site by a panel of judges.

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CNS

How accurate is the offline analysis of 3D volume datasets in the diagnosis of fetal brain abnormalities? (OP25.01)

M. Salman^{1,2}, H. Mousa¹, P. Twining¹, D.K. James¹, M. Momtaz², M. Aboulghar², A. el-Sheikhah², G.J. Bugg¹

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Early pregnancy

Can we avoid laparoscopy in most ectopic pregnancies? The experience of our Early Pregnancy Unit (OP02.08)

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Fetal anomalies

Sonographic estimation of fetal head circumference - how accurate are we? (OP18.01)

N. Melamed, A. Ben-Haroush, Y. Yogeve, R. Mashiach, I. Meizner
Rabin Medical Center, Petach-Tikva, Israel

Fetal growth

Cardiovascular parameters in the prediction of mortality in early-onset intrauterine growth restriction (OP01.06)

M.C. Cruz Lemini¹, R. Cruz-Martinez¹, T. Van Mieghem², M. Parra-Cordero³, J. Deprest², F. Crispi¹, E. Gratacós¹

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Fetal heart

Learning curve and factors influencing the feasibility of performing fetal echocardiography at the time of the first trimester scan (OP03.06)

R.S. Abu-Rustum¹, M. Ziade², S.E. Abu-Rustum³

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Fetal therapy

Intrauterine transfusion (IUT) of mesenchymal stem cells in two fetuses with fractures: follow-up to 3 and 4 years of age (OP27.07)

M. Yamamoto^{1,2}, P. Conget³, T. Anguita², C. Allers³, E. Testart², S. Castillo², C. Gothestrom⁴, K. Le Blanc⁴, C. Crain⁵, A. Insunza^{1,2}

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General gynecology

Prediction of the need for morcellation at total laparoscopic hysterectomy (TLH) from pre-operative 3D volumetric ultrasound-estimated uterine weight and parity (OP11.03)

M. Mongelli, I.V. Casikar, J. Riemke, S. Reid, D. Alhamdan, T. Bignardi, G. Condous
Early Pregnancy, Acute Gynaecology and Advanced Endosurgery Unit, Nepean Hospital, Penrith, NSW, Australia

Gynecology screening

The normal width of the uterine cavity: does it vary with age, gravidity and parity? (OP35.01)

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Imaging in oncology

Ultrasound characteristics of non-genital abdomino-pelvic tumors (OP31.06)

M. Zikan, D. Fischerova, I. Pinkavova, D. Cibula

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Imaging technologies

Comparison of nuchal translucency measurements using 3D Auto biometry package-NT, 2D and 3D ultrasound (OP20.03)

H. Cho¹, Y. Park¹, Y. Kim¹, K. Lee², J. Kim², S. Kim², J. Kwon¹

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Maternal fetal Doppler

Venous liver blood flow and regulation of human fetal growth: evidence from macrosomic fetuses (OP24.03)

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Multiple pregnancy

Impact of selective laser photocoagulation for twin-twin transfusion syndrome on myocardial deformation: strain and strain rate in the donor and recipient (OP06.09)

S. Zeng¹, Z. Tian¹, M. Bebbington², M. Johnson², J. Rychik¹

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Obstetrical management

Outcome of patients with short cervico-isthmic distance (cervist) at first trimester (OP13.03)

L.J. Salomon, J. Stirnemann, M. Essaoui, E. Spaggiari, J. Bernard, V. Yves

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Ovarian pathology

Sonographic follow-up of unilocular >5cm and multilocular ovarian cysts <7cm in post-menopausal women: preliminary results (OP21.05)

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Pelvic floor

Unexpectedly high levator avulsion rates in a tertiary referral urogynecological service (OP26.10)

V.H. Eisenberg, M. Alcalay, A. Jakobson-Setton, R. Achiron, E. Schiff
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Placental pathology

Screening for placenta accreta by ultrasound in the first trimester (OP30.03)

J. Stirnemann, S. Forner, J. Bernard, V. Yves

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Reproductive medicine

Assessing the reliability and validity of 3D crown-rump length measurements

(OP16.02)

S. Sur, K. Jayaprakasan, M. Batcha, C. Voltolina, J. Clewes, B. Winter, N. Cash, N. Raine-Fenning

NURTURE, University of Nottingham, Nottingham, United Kingdom

Screening of aneuploidy

Variability of ultrasound measurements with different machine/probe combinations assessed using a phantom: implications for NT screening (OP17.04)

R.G. Axell¹, C. Lynch², T. Chudleigh³, J. Mangat¹, P. White¹, C. Lees²

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Uterine pathology

Focused ultrasound surgery for conservative fibroids treatment (OP07.10)

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