

ULTRASOUND

in Obstetrics & Gynecology

Editor in Chief: Professor Basky Thilaganathan

The Official Journal of
the International Society of Ultrasound
in Obstetrics and Gynecology



CONTENTS

PERSPECTIVE

- 403 Intelligent navigation to improve obstetrical sonography
L. Yeo and R. Romero

EDITORIAL

- 410 Can third-trimester assessment of uterine scar in women with prior Cesarean section predict uterine rupture?
N. Jastrou, O. Vikhareva, R. J. Gauthier, O. Iriou, M. Boulvain and E. Bujold

REFEREE COMMENTARIES

- 415 Maternal obesity and fetal myocardial function
O. Patey
- 416 Sonographic parameters of Cesarean scar defect and outcome of early termination of pregnancy
P. Sladkevicius

RANDOMIZED CONTROLLED TRIAL

- 417 Impact of adding a second layer to a single unlocked closure of a Cesarean uterine incision: randomized controlled trial
G. Bennich, M. Rudnicki, C. Wilken-Jensen, T. Lousen, P. D. Lassen and K. Wejdemann

SYSTEMATIC REVIEW

- 423 Fetuses with right aortic arch: a multicenter cohort study and meta-analysis
F. D'Antonio, A. Khalil, V. Zidere and J. S. Carvalho

ORIGINAL PAPERS

- 433 Maternal obesity affects fetal myocardial function as early as in the first trimester
C. B. Ingul, L. Lords, E. Tegnander, S. H. Eik-Nes and A. Brantberg
- 443 Extracardiac anomalies in prenatally diagnosed heterotaxy syndrome
I. Gottschalk, R. Stressig, J. Ritgen, U. Herberg, J. Breuer, A. Vorndamme, B. Strizek, A. Willruth, A. Geipel, U. Gembruch and C. Berg
- 450 Prospective evaluation of the fetal heart using Fetal Intelligent Navigation Echocardiography (FINE)
M. Garcia, L. Yeo, R. Romero, D. Haggerty, I. Giardina, S. S. Hassan, T. Chaiworapongsa and E. Hernandez-Andrade
- 460 Association between fetal growth, cerebral blood flow and neurodevelopmental outcome in univentricular fetuses
E. Hahn, A. Szwasz, J. Cnota II, J. C. Levine, C. G. Fifer, E. Jaeggi, H. Andrews and I. A. Williams
- 466 Maternal serum alpha-fetoprotein at 12, 22 and 32 weeks' gestation in screening for pre-eclampsia
F. E. Bredaki, M. Mataliotakis, A. Wright, D. Wright and K. H. Nicolaidis
- 472 Maternal serum placental growth factor at 12, 22, 32 and 36 weeks' gestation in screening for pre-eclampsia
A. Tsiakkas, R. Cazacu, A. Wright, D. Wright and K. H. Nicolaidis
- 478 Maternal serum soluble fms-like tyrosine kinase-1 at 12, 22, 32 and 36 weeks' gestation in screening for pre-eclampsia
A. Tsiakkas, O. Mendez, A. Wright, D. Wright and K. H. Nicolaidis

- 484 Ethics and social acceptability of a proposed clinical trial using maternal gene therapy to treat severe early-onset fetal growth restriction
M. Sheppard, R. N. Spencer, R. Ashcroft, A. L. David and the EVERREST Consortium
- 492 High-intensity focused ultrasound treatment of placenta accreta after vaginal delivery: a preliminary study
Y. Bai, X. Luo, Q. Li, N. Yin, X. Fu, H. Zhang and H. Qi
- 499 Assessment of Cesarean hysterotomy scar in non-pregnant women: reliability of transvaginal sonography with and without contrast enhancement
A. Baranov, G. Gunnarsson, K. Å. Salvesen, P.-E. Isberg and O. Vikhareva
- 506 Association between ultrasonographic parameters of Cesarean scar defect and outcome of early termination of pregnancy
H.-K. Au, C.-F. Liu, C.-R. Tzeng and L.-W. Chien
- 511 Surgical treatment of Cesarean scar ectopic pregnancy: efficacy and safety of ultrasound-guided suction curettage
D. Jurkovic, J. Knez, A. Appiah, L. Farahani, D. Mavrelou and J. A. Ross

LETTERS TO THE EDITOR

- 518 Scalloping of placenta-myometrium interface on ultrasound in case with myomectomy scar
T.-K. Lo, C. H.-L. Lam, K.-W. Cheung, G. H.-T. Ng and A. K.-P. Wu
- 519 Spontaneous first-trimester perforation of the uterus following Cesarean scar pregnancy choriocarcinoma
D. M. Sherer, M. Dalloul, Y. Cho, S. R. Mylvaganam, I. Adeyemo, H. L. Zinn and O. Abulafia
- 521 Impact of partial amniotic carbon dioxide insufflation (PACI) on middle cerebral artery blood flow in mid-gestation human fetuses undergoing fetoscopic surgery for spina bifida aperta
T. Kobl

CORRESPONDENCE

- 523 Knowledge, understanding and fetal occiput position
A. Youssef and G. Pilu
- 524 Reply
P. Rozenberg
- 525 Etiological agents of microcephaly: implications for diagnosis during the current Zika virus epidemic
J. L. Alvarado-Socarras and A. J. Rodriguez-Morales

PICTURE OF THE MONTH

- 527 Prenatal ultrasonographic features of mature cystic teratoma in undescended testicle
A. Youssef, G. Salsi, A. Curti, F. Bellussi, N. A. Elbarbary, F. Locatelli, M. Lima, G. Pilu and N. Rizzo

ISUOG INTERIM GUIDANCE

- 530 ISUOG Interim Guidance on ultrasound for Zika virus infection in pregnancy: information for healthcare professionals
A. T. Papageorghiou, B. Thilaganathan, C. M. Bilardo, A. Ngu, G. Malinger, M. Herrera, L. J. Salomon, L. E. Riley and J. A. Copel