

ULTRASOUND

in Obstetrics & Gynecology

Editor-in-Chief: Professor Anthony Odibo

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



CONTENTS

OPINIONS

- 293 Neurosonographic and MRI diagnosis of fetal cerebral lesions heralding polymicrogyria
D. Paladini, G. Biancotto, F. Della Sala, M. Severino and A. Rossi
- 303 Three-dimensional real and virtual models in fetal surgery: a real vision
O. O. Okpaise, G. Tonni, H. Werner, E. Araujo Júnior, J. Lopes and R. Ruano

SYSTEMATIC REVIEW

- 312 Diagnostic yield of exome sequencing in prenatal agenesis of corpus callosum: systematic review and meta-analysis
H. J. Mustafa, J. P. Barbera, E. V. Sambatur, G. Pagani, Y. Yaron, C. D. Baptiste, R. J. Wapner, C. J. Brewer and A. Khalil

ORIGINAL PAPERS

- 321 Construction of prediction model for fetal growth restriction during first trimester in an Asian population
C. Zheng, C. Ji, B. Wang, J. Zhang, Q. He, J. Ma, Z. Yang, Q. Pan, L. Sun, N. Sun, C. Ling, G. Lin, X. Deng and L. Yin
- 331 Evaluation of screening performance of first-trimester competing-risks prediction model for small-for-gestational age in Asian population
L. Nguyen-Hoang, I. Papastefanou, D. S. Sabota, R. K. Pooh, M. Zheng, N. Chaiyasisit, M. Tokunaka, S. W. Shaw, S. Seshadri, M. Choolani, P. Yapan, W. S. Sim, L. C. Poon and Collaborators
- 342 Screening for pre-eclampsia with competing-risks model using placental growth factor measurement in blood samples collected before 11 weeks' gestation
I. Riishede, C. K. Ekelund, L. Sperling, M. Overgaard, C. S. Knudsen, T. D. Clausen, K. Pihl, H. J. Zingenberg, A. Wright, D. Wright, A. Tabor, L. Rode and Collaborators
- 350 Performance of machine-learning approach for prediction of pre-eclampsia in a middle-income country
J. Torres-Torres, J. R. Villafan-Bernal, R. J. Martinez-Portilla, J. A. Hidalgo-Carrera, G. Estrada-Gutierrez, R. Adalid-Martinez-Cisneros, L. Rojas-Zepeda, S. Acevedo-Gallegos, D. M. Camarena-Cabrera, M. Y. Cruz-Martínez and S. Espino-y-Sosa
- 358 Ophthalmic artery Doppler and biomarkers of impaired placentation at 36 weeks' gestation in pregnancies with small fetuses
A. Arechvo, A. Wright, A. Nobile Recalde, R. Liandro, M. Charakida and K. H. Nicolaides

- 365 Incidence of neonatal morbidity in small-for-gestational-age twins based on singleton and twin charts
D. Wright, A. Wright, A. Rehal, A. Syngelaki, S. E. Kristensen, O. B. Petersen and K. H. Nicolaides

- 371 Consensus protocol for management of early and late twin-twin transfusion syndrome: Delphi study
E. Krispin, A. Javinani, A. Odibo, E. Carreras, S. P. Emery, G. Sepulveda Gonzalez, M. Habli, K. Hecher, K. Ishii, J. Miller, R. Papanna, A. Johnson, A. Khalil, M. D. Kilby, L. Lewi, M. Bernasar Sans, L. Otaño, M. V. Zaretsky, N. Sananes, O. M. Turan, F. Slaghekke, J. Stirnemann, T. Van Mieghem, A. W. Welsh, Y. Yoav, R. Chmait and A. A. Shamshirsaz

- 378 Risk of major congenital heart disease in pregestational maternal diabetes is modified by hemoglobin A1c
R. He, L. K. Hornberger, A. Kaur, S. Crawford, C. Boehme, A. McBrien and L. Eckersley

- 385 Quantitative fetal MRI with diffusion tensor imaging in cases with 'short' corpus callosum
R. Corroenne, D. Grevent, H. Mahallati, A.-E. Millischer, G. Gauchard, L. Bussieres, G. Kasprian, Y. Ville and L. J. Salomon
- 392 Unique prenatal manifestations of biallelic *NDUFAF5* variants: expansion of phenotype
D. Brabbing-Goldstein, D. Kozlova, L. Bazak, L. Basel-Salmon, Y. Gilboa, I. Marciano-Levi, J. Zahra, B. Kanengisser-Pines, A. Botvinik, A. Kurolap, R. Birnbaum and Y. Yaron
- 399 Imaging in gynecological disease (27): clinical and ultrasound characteristics of recurrent ovarian stromal cell tumors
F. Moro, M. T. Giudice, G. Bolomini, M. C. Moruzzi, F. Mascilini, L. Quagliozzi, F. Ciccarone, G. Scambia, A. Fagotti, L. Valentin and A. C. Testa
- 408 Updating M6 pregnancy of unknown location risk-prediction model including evaluation of clinical factors
C. Kyriacou, A. Ledger, S. Bobdiwala, F. Ayim, E. Kirk, O. Abughazza, S. Guha, V. Vathanan, D. Gould, D. Timmerman, B. Van Calster, T. Bourne and Collaborators

LETTERS TO THE EDITOR

- 419 Intrauterine laser coagulation of rapidly growing epignathus with autonomous cardiac activity
M. Tavares de Sousa, R. Chaoui, J. Herrmann and K. Hecher
- 421 NSF-related fetal anemia and hydrops: new entity?
R. Li, G.-L. Chen, Y.-L. Zhang and D.-Z. Li
- 422 Fetoscopic laser photoocoagulation for complex heterokaryotypic monochorionic twin pregnancy management
J. L. Munoz, C. Buskmiller, M. Sanz Cortes, R. V. Donepudi, M. A. Belfort and A. A. Nassr
- 424 Herlyn-Werner-Wunderlich syndrome: value of 3D ultrasound, 3D sonovaginography and virtual navigation in diagnosis of Müllerian malformations
A. B. Perilla, R. d. C. M. Dardes, M. G. Nunes, E. Araujo Júnior, H. Werner, G. Ribeiro, P. T. Castro, C. C. Takano, P. S. Cossi and E. Schor

CORRESPONDENCE

- 426 Maternal diabetes as a teratogenic factor in fetal congenital heart disease: more than hyperglycemia
F. Jiang and D.-Z. Li
- 427 Reply
L. Eckersley
- 427 Before homozygous *NDUFAF5* variants are held responsible for intrauterine death, their pathogenicity must be demonstrated
J. Finsterer
- 428 Reply
D. Brabbing-Goldstein, L. Basel-Salmon and Y. Yaron
- 430 Neurosonographic evaluation of corpus callosum-fastigium and tectal length in late-onset small fetuses
Y. Tan, L. Wang, X. Qi and H. Luo

PICTURE OF THE MONTH

- 432 Four-dimensional imaging of fetal infracardiac total anomalous pulmonary venous connection with double drainage
B. Karmegaraj