

JOURNAL OF PERINATAL MEDICINE

OFFICIAL JOURNAL OF THE WORLD ASSOCIATION
OF PERINATAL MEDICINE

EDITOR-IN-CHIEF

J. W. Dudenhausen, Berlin, New
York, Doha

FOUNDING EDITOR

E. Z. Saling, Berlin

**COORDINATING EDITOR
FOR THE WAPM**

F. A. Chervenak, New York

EDITORS OBSTETRICS

M. Genc, New York
R. Romero, Detroit

NEONATOLOGY

E. Bancalari, Miami
A. Greenough, London

MANAGING EDITOR

I. Grünberg-Rinkleff,
c/o de Gruyter

EDITORIAL BOARD

M. Aslam, Boston
R. Bergmann, Berlin
J. F. Bernardes, Porto
G. Bevilacqua, Parma
I. Blickstein, Rehovot
L. Cabero, Barcelona
X. Carbonell-Estrany, Barcelona
J. M. Carrera, Barcelona
V. D'Addario, Bari
G. Dimitrou, Patras
W. Foulon, Brussels
A. Grunebaum, New York
J. Harding, Auckland
R. Hentschel, Freiburg
W. Holzgreve, Berlin
I. Kawabata, Gifu
M. J. M. C. Keirse, Adelaide
A. Kurjak, Zagreb
M. Levene, Leeds
C. J. Lockwood, New Haven

A. Makatsariya, Moskau
K. Maršál, Lund
J. C. Martinez, Buenos Aires
H. Nishida, Tokyo
Z. Papp, Budapest
R. K. Pejaver, Bangalore
R. K. Pooh, Osaka
O. D. Saugstad, Oslo
J. Schenker, Jerusalem
C. Şen, Istanbul
H. P. van Geijn, Amsterdam
K. Vetter, Berlin
B. K. Young, New York
R. Zimmermann, Zurich

STATISTICAL ADVICE

W. Köpcke, Münster

ETHICAL ADVICE

F. A. Chervenak, New York



DE GRUYTER

ABSTRACTED/INDEXED IN Algology, Mycology & Protozoology Abstracts (Microbiology C); Automatic Subject Citation Alert (ASCA); Bacteriology Abstracts (Microbiology B); Biological Abstracts; BIOSIS Previews; CAB Abstracts and Global Health; Chemical Abstracts and the CAS databases; CSA Illustrata – Natural Sciences; Current Contents/Clinical Medicine; EMBASE, the Excerpta Medica database; Health & Safety Science Abstracts; Industrial and Applied Microbiology Abstracts (Microbiology A); Index Medicus/MEDLINE; ISI Custom Information Services; Journal Citation Reports/Science Edition; Science Citation Index; Science Citation Index Expanded (SciSearch); Scopus; SIIC Data Bases.

The Journal is associated with the World Association of Perinatal Medicine. 

The publisher, together with the authors and editors, has taken great pains to ensure that all information presented in this work (programs, applications, amounts, dosages, etc.) reflects the standard of knowledge at the time of publication. Despite careful manuscript preparation and proof correction, errors can nevertheless occur. Authors, editors and publisher disclaim all responsibility for any errors or omissions or liability for the results obtained from use of the information, or parts thereof, contained in this work.

The citation of registered names, trade names, trademarks, etc. in this work does not imply, even in the absence of a specific statement, that such names are exempt from laws and regulations protecting trademarks etc. and therefore free for general use.

ISSN 0300-5577 · e-ISSN1619-3997 · CODEN JPMAO

All information regarding notes for contributors, subscriptions, Open access, back volumes and orders is available online at www.degruyter.com/jpm.

RESPONSIBLE EDITOR Dr. Joachim W. Dudenhausen FRCOG Professor of Obstetrics and Gynecology, Weill Cornell Medical College Medical Advisor and Head of Medical Staff Services, Professor Emeritus - Charite University Medicine Berlin, Editor in Chief - *Journal of Perinatal Medicine*, Sidra Medical & Research Center Qatar Foundation, PO Box 26999, Doha, State of Qatar

JOURNAL MANAGER Ingrid Grünberg, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05 – 245, Fax: +49 (0)30 260 05 – 298, Email: jpm@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Panagiota Herbrand, De Gruyter, Rosenheimer Straße 143, 81671 München, Germany, Tel.: +49 (0)89 769 02 – 394, Fax: +49 (0)89 769 02 – 350, Email: panagiota.herbrand@degruyter.com

© 2014 Walter de Gruyter GmbH, Berlin/Boston

TYPESETTING Compuscript Ltd., Shannon, Ireland

PRINTING Franz X. Stückle Druck und Verlag e.K., Ettenheim
Printed in Germany



Offenlegung der Inhaber und Beteiligungsverhältnisse gem. § 7a Abs. 1 Ziff. 1, Abs. 2 Ziff. 3 des Berliner Pressegesetzes: Die Gesellschafter der Walter de Gruyter GmbH sind: Cram, Gisela, Rentnerin, Berlin; Cram, Elsbeth, Pensionärin, Rosengarten-Alvesen; Cram, Margret, Studienrätin i.R., Berlin; Cram, Dr. Georg-Martin, Unternehmens-Systemberater, Stadtbergen; Cram, Maike, Berlin; Cram, Jens, Mannheim; Cram, Ingrid, Betriebsleiterin, Tuxpan / Michoacan (Mexiko); Cram, Sabina, Mexico, DF (Mexiko); Cram, Silke, Wissenschaftlerin, Mexico DF (Mexiko); Cram, Björn, Aachen; Cram, Ella Anita, Rentnerin, Berlin; Cram, Berit, Greifswald; Cram-Gomez, Susanne, Mexico DF (Mexiko); Cram-Heydrich, Walter, Mexico DF (Mexiko); Duvemberck, Brigitta, Oberstudienrätin i.R., Bad Homburg; Fund, Dr. Sven, geschäftsführender Gesellschafter, Berlin; Gädeke, Gudula, M.A., Atemtherapeutin/Lehrerin, Tübingen; Gädeke, Martin, Einzelunternehmer, Würzburg; Lubasch, Dr. Annette, Ärztin, Berlin; Schütz, Dr. Christa, Ärztin, Mannheim; Schütz, Sonja, Berlin; Schütz, Juliane, Berlin; Schütz, Antje, Berlin; Schütz, Valentin, Berlin; Seils, Dorothee, Apothekerin, Stuttgart; Seils, Gabriele, Journalistin, Berlin; Seils, Dr. Clara-Eugenie, Oberstudienrätin i.R., Reppenstedt; Seils, Christoph, Journalist, Berlin; Siebert, John-Walter, Pfarrer, Oberstenfeld; Walter de Gruyter Stiftung, Berlin.

Contents

Recommendation and Guidelines for Perinatal Practice

Manuela Donalisio, Valeria Cagno, Marta Vallino, Guido E. Moro, Sertac Arslanoglu, Paola Tonetto, Enrico Bertino and David Lembo

Inactivation of high-risk human papillomaviruses by Holder pasteurization: implications for donor human milk banking — 1

Review article

Renate L. Bergmann, Karl E. Bergmann, Katharina von Weizsäcker, Monika Berns, Wolfgang Henrich and Joachim W. Dudenhausen

Breastfeeding is natural but not always easy: intervention for common medical problems of breastfeeding mothers – a review of the scientific evidence — 9

Original article – Obstetrics

José Rojas-Suarez, Angel Paternina-Caicedo, Liliana Cuevas, Sofía Angulo, Ricardo Cifuentes, Edgar Parra, Elena Fino, José Daza, Orlando Castillo, Adriana Pacheco, Gloria Rey, Sara García, Isabel Peña, Andrew Levinson and Ghada Bourjeily

Maternal mortality due to pandemic influenza A H1N1 2009 virus in Colombia — 19

Commentary

Sonja A. Rasmussen and Denise J. Jamieson

Maternal mortality due to pandemic influenza A H1N1 2009 virus in Colombia — 27

Original article

Ichchha Madan, Nandor Gabor Than, Roberto Romero, Piya Chaemsaitong, Jezid Miranda, Adi L. Tarca, Gaurav Bhatti, Sorin Draghici, Lami Yeo, Moshe Mazor, Sonia S. Hassan and Tinnakorn Chaiworapongsa

The peripheral whole-blood transcriptome of acute pyelonephritis in human pregnancy — 31

Original articles – Obstetrics

Daniel W. Skupski, Stephanie N. Lin, Jonathan Reiss and Gary S. Eglinton

Extremely short cervix in the second trimester: bed rest or modified Shirodkar cerclage? — 55

Katharina Schoofs, Ulrike Grittner, Theresa Engels, Juliane Pape, Barbara Denk, Wolfgang Henrich and Stefan Verlohren

The importance of repeated measurements of the sFlt-1/PlGF ratio for the prediction of preeclampsia and intrauterine growth restriction — 61

Vasiliki Sarantopoulou, Vasiliki Vasileiou, Leda Sarika, George Philippou, Maria Alevizaki, Aris Antsaklis and Eleni Anastasiou

Does the presence of thyroid antibodies affect the course and outcome of pregnancy in type 1 diabetic women? — 69

Menachem Ben-Ezra, Yuval Palgi, Reut Walker, Ariel Many and Yaira Hamam-Raz

The impact of perinatal death on obstetrics nurses: a longitudinal and cross-sectional examination — 75

Hiroshi Hori, Masakazu Umezawa, Mariko Uchiyama, Rikio Niki, Shinya Yanagita and Ken Takeda

Effect of high-fat diet prior to pregnancy on hepatic gene expression and histology in mouse offspring — 83

Original article – Obstetrics (TTTS)

Masaharu Murata, Keisuke Ishii, Takako Taguchi, Aki Mabuchi, Haruna Kawaguchi, Ryo Yamamoto, Shusaku Hayashi and Nobuaki Mitsuda

The prevalence and clinical features of twin-twin transfusion syndrome with onset during the third trimester — 93

Original article – Newborn (TTTS)

Barthélémy Tosello, Julie Blanc, Jean-Baptiste Haumonté, Claude D'Ercole and Catherine Gire

Short and medium-term outcomes of live-born twins after fetoscopic laser therapy for twin-twin transfusion syndrome — 99

Original article – Fetus

Ioannis Papastefanou, Dimitra Kappou, Athena P. Souka, Charalambos Chrelias, Charalambos Siristatidis, Athanasios Pilalis and Demetrios Kassanos

Fetal volume at 11–14 gestational weeks: reference ranges and association with first trimester biochemical and biophysical markers — 107

Original articles – Newborn

Simone Aparecida Basso da Silva, Maria Fernanda Branco de Almeida, Antonio Fernandes Moron, Sérgio Cavalheiro, Patrícia Alessandra Dastoli and Ruth Guinsburg

Resuscitation at birth in neonates with meningomyelocele — 113

Ja Young Seo, Hyung-Doo Park, Jong Won Kim, Hyeon Ju Oh, Jeong Soo Yang, Yun Sil Chang, Won Soon Park and Soo-Youn Lee

Steroid profiling for congenital adrenal hyperplasia by tandem mass spectrometry as a second-tier test reduces follow-up burdens in a tertiary care hospital: A retrospective and prospective evaluation — 121

Muhammad Adrianes Bachnas, Johannes Cornelius Mose, Jusuf Sulaeman Effendi and Wiku Andonotopo

Influence of antenatal magnesium sulfate application on cord blood levels of brain-derived neurotrophic factor in premature infants — 129

Short communication

Cathy Monteith, Fionnuala Ní Áinle, Sharon Cooley, John S. Lambert, Barry Kelleher, Valerie Jackson and Maeve Eogan

Hepatitis C virus-associated thrombocytopenia in pregnancy: impact upon multidisciplinary care provision — 135

Congress Calendar — 139