

JOURNAL OF PERINATAL MEDICINE

OFFICIAL JOURNAL OF THE WORLD ASSOCIATION OF
PERINATAL MEDICINE, THE INTERNATIONAL ACADEMY OF
PERINATAL MEDICINE, THE NEW YORK PERINATAL SOCIETY
AND THE SOCIETY THE FETUS AS A PATIENT

EDITOR-IN-CHIEF

J. W. Dudenhausen, Berlin,
New York

FOUNDING EDITOR

E. Z. Saling, Berlin

**COORDINATING EDITOR
FOR THE WAPM**

F. A. Chervenak, New York

**COORDINATING EDITOR
FOR THE IAPM**

A. Kurjak, Zagreb

EDITORS OBSTETRICS

J. Chappelle, New York
M. Genc, New York
A. Grunebaum, New York
Justin Konje, Doha
R. Romero, Detroit

NEONATOLOGY

E. Bancalari, Miami
A. Greenough, London

MANAGING EDITOR

I. Grünberg-Rinkleff,
c/o de Gruyter

EDITORIAL BOARD

R. Bergmann, Berlin
J. F. Bernardes, Porto
I. Blickstein, Rehovot
L. Cabero, Barcelona
X. Carbonell-Estrany, Barcelona
J. M. Carrera, Barcelona
V. D'Addario, Bari
Mary E. D'Alton, New York
R. Hentschel, Freiburg
W. Holzgreve, Bonn
M. J. M. C. Keirse, Adelaide
B. Lee, Doha
M. Levene, Leeds
C. J. Lockwood, New Haven
K. Maršál, Lund
J. C. Martinez, Buenos Aires
Z. Papp, Budapest
R. K. Pejaver, Bangalore

R. K. Pooh, Osaka

Irwin Reiss, Rotterdam

O. D. Saugstad, Oslo

J. Schenker, Jerusalem

C. Şen, Istanbul

I. Seri, Doha

A. Thomas, Berlin

K. Vetter, Berlin

Hung N. Winn, Columbia

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 Journal is associated with the International Academy of Perinatal Medicine. 

The Journal is associated with the New York Perinatal Society. 

The Journal is associated with the The Fetus as a Patient Society. 

The Journal is associated with Core Outcomes in Women's Health. 

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, Clinical Professor of Obstetrics and Gynecology - Weill Cornell Medicine, New York, Professor and Chairman Emeritus - Dept. of Obstetrics - Charite University Medicine Berlin

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 – 315, Email: jpm@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Claudia Neumann, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05-226, Fax: +49 (0)30 260 05-264, Email: anzeigen@degruyter.com

© 2018 Walter de Gruyter GmbH, Berlin/Boston

TYPESETTING Compuscript Ltd., Shannon, Ireland

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



Contents

Review article

Shi-Min Yuan

Fetal cardiac tumors: clinical features, management and prognosis — 115

Original articles – Obstetrics

Eli Maymon, Roberto Romero, Gaurav Bhatti, Piya Chaemsaitong, Nardhy Gomez-Lopez, Bogdan Panaitescu, Noppadol Chaiyasit, Percy Pacora, Zhong Dong, Sonia S. Hassan and Offer Erez
Chronic inflammatory lesions of the placenta are associated with an up-regulation of amniotic fluid CXCR3: A marker of allograft rejection — 123

Charlotte Millde Luthander, Hans Järnbert Pettersson, Ulf Högberg, Sophie Berglund and Charlotta Grunewald
Gaps in obstetric care processes – we can only improve what is being measured — 139

Karin Demšar, Matija Svetina, Ivan Verdenik, Natasa Tul, Isaac Blickstein and Vislava Globevnik Velikonja
Tokophobia (fear of childbirth): prevalence and risk factors — 151

Fernand D. Samson, Amanda L. Merriman, Danielle L. Tate, Katherine Apostolakis-Kyrus and Luis M. Gomez
Adjuvant administration of 17- α -hydroxy-progesterone caproate in women with three or more second trimester pregnancy losses undergoing cervical cerclage is no more effective than cerclage alone — 155

Ana Raquel Neves, Filipa Nunes, Miguel Branco, Maria do Céu Almeida and Isabel Santos Silva
The role of ultrasound in the prediction of birth weight discordance in twin pregnancies: are we there yet? — 163

Lukas Soellner, Kathrin Maria Kopp, Sabine Mütze, Robert Meyer, Matthias Begemann, Sabine Rudnik, Werner Rath, Thomas Eggermann and Klaus Zerres
NLRP genes and their role in preeclampsia and multi-locus imprinting disorders — 169

Original articles – Fetus

Nalan Neşe and Yeşim Bülbül
Diagnostic value of perinatal autopsies: analysis of 486 cases — 175

Vibeke Moen, Lars Brudin, Ivar Tjernberg, Mats Rundgren and Lars Irestedt
Feto-maternal osmotic balance at term. A prospective observational study — 183

Original articles – Newborn

Rashi Bhargava, Madhu Mathur and Jyoti Patodia
Oxygen saturation trends in normal healthy term newborns: normal vaginal delivery vs. elective cesarean section — 191

Millie Nguyen Basu, Iben Birgit Gade Johnsen, Sonja Wehberg, Rikke Guldborg Sørensen, Torben Barington and Bente Mertz Nørgård
Causes of death among full term stillbirths and early neonatal deaths in the Region of Southern Denmark — 197

Şahin Hamilçikan and Emrah Can
Critical congenital heart disease screening with a pulse oximetry in neonates — 203

Marianne Ullestad Huun, Håvard T. Garberg, Javier Escobar, Consuelo Chafer, Maximo Vento, Ingar M. Holme, Ola Didrik Saugstad and Rønnaug Solberg
DHA reduces oxidative stress following hypoxia-ischemia in newborn piglets: a study of lipid peroxidation products in urine and plasma — 209

Barış Büke and Hatice Akkaya
A non-invasive method to rule out transient tachypnea of the newborn (TTN): fetal pulmonary artery acceleration to ejection time ratio — 219

Letters to the Editor

Rikke Damkjær Maimburg

**Clarification of the methods and statistics in the study
“Planned home birth and the association with neonatal
hypoxic ischemic encephalopathy” — 225**

Shane W. Wasden, Stephen T. Chasen, Jeffrey M. Perlman,
Jessica L. Illuzzi, Frank A. Chervenak, Amos Grunebaum
and Heather S. Lipkind

**Clarification of the methods and statistics in the study
“Planned home birth and the association with neonatal
hypoxic ischemic encephalopathy” — 227**

Jessica Malmqvist and Ole Olsen

**Reply to: Planned home birth and the association with
neonatal hypoxic ischemic encephalopathy — 229**

Karin Sturzenegger, Leonhard Schäffer,
Roland Zimmermann and Christian Haslinger

**Response to the Letter to the Editor, “Risk factors of
uterine rupture with a special interest to uterine fundal
pressure: methodological issues” — 231**

Junaid Rafi

**Re: Utility of routine urine CMV PCR and total serum IgM
testing of small for gestational age infants: a single
center review — 233**