

JOURNAL OF PEDIATRIC ENDOCRINOLOGY AND METABOLISM

EDITOR-IN-CHIEF

Wieland Kiess, Leipzig

ASSOCIATE EDITORS

Abdullah Bereket, Istanbul

Feyza Darendeliler, Istanbul

Mehul Dattani, London

Jan Gustafsson, Uppsala

Feihong Luo, Shanghai

Veronica Mericq, Santiago

Christian Roth, Seattle, WA

Jorma Toppari, Turku

ASSISTANT MANAGING EDITOR

Melanie Penke, Leipzig

EDITORIAL BOARD

Tadej Battelino, Ljubljana

Atilla Buyukgebiz, Istanbul

Fernando Cassorla, Santiago de Chile

George Chrousos, Athens

Wayne Cutfield, Auckland

Hugo L. Fideleff, Buenos Aires

Eli Hershkovitz, Beersheba

Olaf Hiort, Lübeck

Stephen LaFranchi, Portland, OR

Roberto Lanes, Caracas

Angelika Mohn, Chieti

Ron Rosenfeld, Portland, OR

Allen W. Root, Saint Petersburg, FL

George Werther, Parkville

Zvi Zadik, Rehovot

DE GRUYTER

ABSTRACTED/INDEXED IN Baidu Scholar · Case · Celdes · Chemical Abstracts Service (CAS): CAplus; SciFinder · Clarivate Analytics (formerly Thomson Reuters): Biological Abstracts; BIOSIS Previews; Current Contents/Life Sciences; Journal Citation Reports/Science Edition; Prous Science Integrity; Science Citation Index; Science Citation Index Expanded · CNKI Scholar (China National Knowledge Infrastructure) · CNPIEC · EBSCO (relevant databases) · EBSCO Discovery Service · Elsevier: EMBASE; Reaxys; SCOPUS · Gale/Cengage · Genamics JournalSeek · Google Scholar · ICAP Alcohol Information Databases · Index Copernicus · J-Gate · JournalTOCs · KESLI-NDSL (Korean National Discovery for Science Leaders) · Medline · Meta (formerly Sciencescape) · Microsoft Academic · Naviga (Softweco) · Primo Central (ExLibris) · ProQuest (relevant databases) · PubMed · PubsHub · ReadCube · ResearchGate · SCImago (SJR) · Sherpa/RoMEO · Summon (Serials Solutions/ProQuest) · TDNet · Ulrich's Periodicals Directory/ulrichsweb · WanFang Data · WorldCat (OCLC).

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 0334-018X · e-ISSN 2191-0251

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

RESPONSIBLE EDITOR(S)

Prof. Dr. Wieland Kiess, MD, Professor of Pediatrics, Director and Chair, Hospital for Children and Adolescents, Department of Women and Child Health, University Hospitals, University of Leipzig, Liebigstraße 20a, 04103 Leipzig, Germany, Tel.: +49 (0)341 972 60 00, Fax: +49 (0)341 972 60 09, e-mail: Wieland.Kiess@medizin.uni-leipzig.de

JOURNAL MANAGER Heike Jahnke, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany,
Tel.: +49 (0)30 260 05 – 220, Fax: +49 (0)30 260 05 – 246, e-mail: jpem.editorial@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS top-ad Bernd Beutel, Schlossergäßchen 10, 69469 Weinheim, Germany, Tel.: +49 (0)62 01 290 92-0, Fax: +49 (0)62 01 290 92-20, e-mail: info@top-ad-online.de

© 2017 Walter de Gruyter GmbH, Berlin/Boston

TYPESETTING Compuscript Ltd., Shannon, Ireland

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

Cover Illustration: medicalpicture/Friedhelm Achenbach



Contents

Review

Jane Loftus, Anders Lindberg, Ferah Aydin, Roy Gomez, Mohamad Maghnie, Raoul Rooman, Heinz Steinkamp, Helmuth Doerr, Michael Ranke and Cecilia Camacho-Hubner

Individualised growth response optimisation (iGRO) tool: an accessible and easy-to-use growth prediction system to enable treatment optimisation for children treated with growth hormone — 1019

Original Articles

Onur Akın, İbrahim Eker, Mutluay Arslan, Süleyman Tolga Yavuz, Sevil Akman, Mehmet Emre Taşçılar and Bülent Ünay

Relation of insulin resistance to neurocognitive function and electroencephalography in obese children — 1027

Pooneh Angoorani, Ramin Heshmat, Hanieh-Sadat Ejtahed, Mostafa Qorbani, Mohammad Esmaeil Motlagh, Hasan Ziaodini, Majzoubeh Taheri, Gita Shafiee, Zeinab Ahadi, Tahereh Aminaee and Roya Kelishadi

Body weight misperception and health-related factors among Iranian children and adolescents: the CASPIAN-V study — 1033

Habibesadat Shakeri, Seyed-Javad Pournaghi, Javad Hashemi, Mohammad Mohammad-Zadeh and Arash Akaberi

Do sufficient vitamin D levels at the end of summer in children and adolescents provide an assurance of vitamin D sufficiency at the end of winter? A cohort study — 1041

Yin Ping Liew, Timothy A. Rogers, Jane L. Garb, Holley F. Allen, Edward O. Reiter, Thomas J. Campfield, Vikas R. Dharnidharka and Gregory L. Braden

Type 3 renal tubular acidosis associated with growth hormone deficiency — 1047

Cristina Meazza, Heba H. Elsedfy, Randa I. Khalaf, Fiorenzo Lupi, Sara Pagani, Mohamed El Kholy, Carmine Tinelli, Giorgio Radetti and Mauro Bozzola

Serum α-klotho levels are not informative for the evaluation of growth hormone secretion in short children — 1055

Ayşe Derya Buluş and Esra Tiftik

Evaluation of neurodevelopment of children with congenital hypothyroidism by the Denver Developmental Screening Test — 1061

Courtney Olmsted, Rajalakshmi Arunachalam, Xiang Gao, Liuska Pesce and Geeta Lal

Pediatric differentiated thyroid carcinoma: trends in practice and outcomes over 40 years at a single tertiary care institution — 1067

Ángel Matute-Llorente, Alejandro González-Agüero, Germán Vicente-Rodríguez, Luís B. Sardinha, Fátima Baptista and José A. Casajús

Physical activity and bone mineral density at the femoral neck subregions in adolescents with Down syndrome — 1075

Heather C.M. Allaway, Esther M. John, Theresa H. Keegan and Mary Jane De Souza

A pilot study on the utility of reduced urine collection frequency protocols for the assessment of reproductive hormones in adolescent girls — 1083

Evgenia Globa, Nataliya Zelinska, Lenka Elblova, Petra Dusatkova, Ondrej Cinek, Jan Lebl, Kevin Colclough, Sian Ellard and Stepanka Pruhova

MODY in Ukraine: genes, clinical phenotypes and treatment — 1095

Rose M. Kreikemeier, Heather Gosnell, Lisa M. Halbur and Eric T. Rush

A retrospective review of initial bisphosphonate infusion in an inpatient vs. outpatient setting for bisphosphonate naïve patients — 1105

Kohei Aoyama, Haruo Mizuno, Tatsushi Tanaka, Takao Togawa, Yutaka Negishi, Kei Ohashi, Ikumi Hori, Masako Izawa, Takashi Hamajima and Shinji Saitoh

Molecular genetic and clinical delineation of 22 patients with congenital hypogonadotropic hypogonadism — 1111

Letter to the Editor

Kleopatra H. Schulpis, Georgia Thodi, Maria Chatzidaki, Konstantinos Iakovou, Elina Molou, Yannis Dotsikas and Yannis L. Loukas

Rare cases of galactose metabolic disorders: identification of more than two mutations per patient — 1119

Case Reports

Jan-Niclas Schwade, Matthias Endmann, Thomas Hofmann, Stephan Rust, Jörn Oliver Sass and Frank Rutsch

When one disease is not enough: succinyl-CoA: 3-oxoacid coenzyme A transferase (SCOT) deficiency due to a novel mutation in *OXCT1* in an infant with known phenylketonuria — 1121

Monica Fernandez, Maria Jose Zambrano, Joel Riquelme, Claudia Castiglioni, Marie-Laure Kottler, Harald Jüppner and Veronica Mericq

Pseudohypoparathyroidism type 1B associated with assisted reproductive technology — 1125

Ensar Duras, Ahmet İrdem and Ozan Özkaya

Long QT syndrome diagnosed in two sisters with propionic acidemia: a case report — 1133

Elif Ozsu and Allison Bahm

Delayed diagnosis of proopiomelanocortin (POMC) deficiency with type 1 diabetes in a 9-year-old girl and her infant sibling — 1137