

# JOURNAL OF PEDIATRIC ENDOCRINOLOGY AND METABOLISM

## EDITOR-IN-CHIEF

*Wieland Kiess, Leipzig*

## HONORARY EDITOR

*Zvi Zadik, Rehovot*

## ASSOCIATE EDITORS

*Abdullah Bereket, Istanbul*  
*Mehul Dattani, London*  
*Justin Davies, Southampton*  
*Jan Gustafsson, Uppsala*  
*Feihong Luo, Shanghai*  
*Rod Mitchell, Edinburgh*  
*Raja Padidela, Manchester*  
*Jorma Toppari, Turku*  
*Serhap Turan, Istanbul*

## ASSISTANT MANAGING EDITOR

*Anna Kirstein, Leipzig*

## EDITORIAL BOARD

*Tadej Battelino, Ljubljana*  
*Fernando Cassorla, Santiago de Chile*  
*George Chrousos, Athens*  
*Wayne Cutfield, Auckland*  
*Johnny Deladoey, Montreal, QC*  
*Rasha Tarif Hamza, Cairo*  
*Eli HersHKovitz, Beersheba*  
*Stephen LaFranchi, Portland, OR*  
*Roberto Lanes, Caracas*  
*Warren Lee, Singapore*  
*Angelika Mohn, Chieti*  
*Margaret Zacharin, Melbourne*

**DE GRUYTER**

**ABSTRACTED/INDEXED IN** Baidu Scholar · Cabells Journalytics · CABI (over 50 subsections) · Case · Chemical Abstracts Service (CAS): CAPlus; SciFinder · CNKI Scholar (China National Knowledge Infrastructure) · CNPIEC: cnpLINKer · Dimensions · EBSCO (relevant databases) · EBSCO Discovery Service · EMBASE · Genamics JournalSeek · Google Scholar · ICAP Alcohol Information Databases · Index Copernicus · Japan Science and Technology Agency (JST) · J-Gate · Journal Citation Reports/Science Edition · JournalGuide · JournalTOCs · KESLI-NDSL (Korean National Discovery for Science Leaders) · Medline · Meta · Microsoft Academic · MyScienceWork · Naver Academic · Naviga (Softweco) · Pathway Studio · Primo Central (ExLibris) · ProQuest (relevant databases) · Publons · PubMed · PubsHub · QOAM (Quality Open Access Market) · ReadCube · Reaxys · SCImago (SJR) · SCOPUS · Semantic Scholar · Sherpa/RoMEO · Summon (ProQuest) · TDNet · Text Mining · Ulrich's Periodicals Directory/ulrichsweb · WanFang Data · Web of Science: Biological Abstracts; BIOSIS Previews; Current Contents/Life Sciences; Prous Science Integrity; Science Citation Index; Science Citation Index Expanded · WorldCat (OCLC) · Yewno Discover

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](http://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](mailto:Wieland.Kiess@medizin.uni-leipzig.de)

**PUBLISHER** Walter de Gruyter GmbH, Berlin/Boston, Genthiner Straße 13, 10785 Berlin, Germany

**JOURNAL MANAGER** Dr. Simone Sporn, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05 – 276, e-mail: [jpem.editorial@degruyter.com](mailto:jpem.editorial@degruyter.com)

**RESPONSIBLE FOR ADVERTISEMENTS** Markus Kügel, De Gruyter, Rosenheimer Str. 143, 81671 München, Germany, Tel.: +49 89 76 902-424, e-mail: [anzeigen@degruyter.com](mailto:anzeigen@degruyter.com)

© 2022 Walter de Gruyter GmbH, Berlin/Boston

**TYPESETTING** TNQ Technologies, Chennai, India

**PRINTING** Franz X. Stückle Druck und Verlag e.K., Ettenheim

**COVER ILLUSTRATION** Medicalpicture/Friedhelm Achenbach



## Contents

### Review Article

Hüseyin Anıl Korkmaz and Behzat Özkan  
**Impact of Obesity on Bone Metabolism in Children — 557**

### Mini Review

Therdpong Tempark, Tawatchai Deekajorndech, Susheera Chatproedprai, Vichit Supornsilchai and Siriwan Wananukul  
**Late sequelae of drug reaction with eosinophilia and systemic symptoms (DRESS) cause thyroid dysfunction and thyroiditis: review of literature — 567**

### Original Articles

Luis Flores, Isabel Fragoso, Lidia G. De León, Briseidy Ortiz-Rodríguez, Ramón Candia-Luján and Claudia Carrasco-Legleu  
**Moderating effect of bone maturation on the relationship between body fat and insulin resistance — 577**

Madhura Karguppikar, Chirantap Oza, Nikhil Shah, Vaman Khadilkar, Ketan Gondhalekar and Anuradha Khadilkar  
**Prevalence of nephropathy in Indian children and youth with type 1 diabetes mellitus — 585**

İbrahim Mert Erbaş, Aygün Hajikhanova, Özge Besci, Kübra Yüksek Acinikli, Korcan Demir, Ece Böber and Ayhan Abacı  
**Initial neutrophil/lymphocyte and lymphocyte/monocyte ratios can predict future insulin need in newly diagnosed type 1 diabetes mellitus — 593**

Masanobu Kawai, Yuri Etani and Shinobu Ida  
**Subcutaneous adipose tissue is a positive predictor for bone mineral density in prepubertal children with Prader-Willi syndrome independent of lean mass — 603**

Gül Yesiltepe Mutlu, Erdal Eren, Elif Eviz, Tugba Gokce, Sibel Sakarya and Sukru Hatun  
**The attitudes, experiences, and self-competencies of pediatric endocrinology fellows and attending physicians regarding diabetes technology: the Turkey experience — 611**

Zhaoxie Tang, Chen Yang, Hao Zheng, Jiajia Jing, Xiuhong Li and Yanna Zhu  
**Adiposity measures in screening for metabolic syndrome among Chinese children and adolescents — 617**

Caroline Wade, Elvin Thomaseo Burton, Leah Akinseye, Grace Nelson, Jamila Smith-Young and Ahlee Kim  
**Increased anxiety symptoms in pediatric type 1 diabetes during the acute phase of COVID-19 lockdown — 627**

Sara M. F. S. Mosca, Tiago S. Santos, Ana C. B. Mendes, Luís F. M. Ribeiro, Joana M. C. Freitas, Maria J. R. Oliveira, Carla A. Rocha and Teresa M. S. Borges  
**Pediatric adrenal insufficiency: thirty years experience at a Portuguese hospital — 631**

Müge Çınar, Gonca Kılıç Yıldırım, Sinem Kocagil and Oğuz Çilingir  
**Spectrum of PAH gene mutations and genotype-phenotype correlation in patients with phenylalanine hydroxylase deficiency from Turkey — 639**

Fatma Duygu Öztürk Önsal, Gizem Kara Elitok, Ali Bülbül and Ahmet Uçar  
**Serum spexin levels are not associated with size at birth but are associated with metabolic syndrome components in prepubertal children born at term — 649**

Heves Kırmızıbekmez, Yasemin Kendir Demirkol, Özlem Akgün Doğan, Gülcan Seymen, Elif İnan Balcı, Pınar Atla and Fatma Dursun  
**Familial early-onset obesity in Turkish children: variants and polymorphisms in the melanocortin-4 receptor (MC4R) gene — 657**

Fatma Nihal Ozturk and Tugba Akin Duman  
**An update of the mutation spectrum of phenylalanine hydroxylase (PAH) gene in the population of Turkey — 663**

Sabeen Abid Khan, Anusha Khan and Munir Iqbal Malik  
**Primary hypertriglyceridemia induced pancreatitis in a cohort of Pakistani children — 669**

Sevil Kurban, Beray Selver Eklioglu  
and Muhammed Burak Selver

**Investigation of the relationship between serum sclerostin and dickkopf-1 protein levels with bone turnover in children and adolescents with type-1 diabetes mellitus — 673**

## Case Reports

Fatma Derya Bulut, Neslihan Ekşi Bozbulut,  
Özge Özalp, Buket Dalgiç, Neslihan Önenli Mungan,  
Habibe Koç Uçar and Gürsel Biberoglu

**Diagnostic value of plasma lysosphingolipids levels in a Niemann–Pick disease type C patient with transient neonatal cholestasis — 681**

Kazutaka Morota, Hiroaki Tadokoro, Kentaro Sawano,  
Kenichi Watanabe, Naoko Iwata, Haruki Fujisawa,  
Atsushi Suzuki, Yoshihisa Sugimura and Keisuke Nagasaki

**A 7-year-old boy with central diabetes insipidus presenting with thickened pituitary stalk and anti-rabphilin-3A antibody positivity — 687**

Stine Linding Andersen, Anja Lisbeth Frederiksen,  
Astrid Bruun Rasmussen, Mette Madsen  
and Ann-Margrethe Rønholt Christensen

**Homozygous missense variant of *PTH* (c.166C>T, p.(Arg56Cys)) as the cause of familial isolated hypoparathyroidism in a three-year-old child — 691**

Tuğba Kontbay, Müge Atar and Hüseyin Demirbilek

**Long-term follow-up of transient neonatal diabetes mellitus due to a novel homozygous c.7734C>T (p.R228C) mutation in *ZFP57* gene: relapse at prepubertal age — 695**