State of the art of diagnosis and treatment of paediatric thyroid diseases

Paediatric Thyroidology

Editor

Gabor Szinnai

Contents

- **Preface:** Szinnai, G.
- **Thyroid Hormone Physiology**
- **Evolution, Child Development and the Thyroid: A Phylogenetic and Ontogenetic Introduction to Normal Thyroid Function:** Krude, H.
- **Human Fetal Thyroid Function:** Polak, M.
- **The Role of Thyroid Hormones for Brain Development and Cognitive Function:** Rovet, J.F.
- **Congenital Hypothyroidism**
- **Neonatal Screening for Congenital Hypothyroidism:** Torresani, T.
- **Diagnosis, Treatment and Outcome of Congenital Hypothyroidism:** Van Vliet, G.; Deladoëy, J.
- **Clinical Genetics of Congenital Hypothyroidism:** Szinnai, G.
- **Central Hypothyroidism in Children:** García, M.; Fernández, A.; Moreno, J.C.
- **Impaired Sensitivity to Thyroid Hormones**
- **Thyroid Hormone Cell Membrane Transport Defect:** Ramos, H.E.
- **Resistance to Thyroid Hormone:** Onigata, K.; Szinnai, G.
- **Thyroid and Environment**
- **Iodine Deficiency in Children:** Pearce, E.N.
- **Autoimmune Thyroid Disease**
- **Thyroid Autoimmunity:** Wiersinga, W.M.
- **Clinical Aspects of Hashimoto's Thyroiditis:** Radetti, G.
- **Graves' Disease in Children:** Léger, J.
- **Thyroid Cancer**
- **Thyroid Nodules and Differentiated Thyroid Cancer:** Bauer, A.J.
- **Medullary Thyroid Carcinoma in Children:** Viola, D.; Romei, C.; Elisei, R.
- **Clinical Case Seminar**
- **Clinical Case Seminar in Paediatric Thyroid Disease:** Szinnai, G.; Léger, J.; Bauer, A.J.; Pearce, E.N.; Ramos, H.E.; Canalli, M.H.; Onigata, K.; Elisei, R.; Radetti, G.; Polak, M.; Van Vliet, G.; Deladoëy, J.
- **Author Index**
- **Subject Index**

This book presents a comprehensive overview of paediatric thyroid diseases and thus provides a useful tool for clinical problem solving. Opinion leaders in the field present reviews on all relevant diseases of the hypothalamic-pituitary-thyroid axis. Sixteen chapters cover topics ranging from foetal thyroidology, congenital hypothyroidism, central hypothyroidism, inherited defects of thyroid hormone action, cell transport and metabolism to iodine deficiency, autoimmune thyroid disease and thyroid tumours.

Written by clinicians, the chapters provide in-depth information and current guidelines for clinical problems encountered in paediatric thyroidology. As a unique feature, a case seminar collection for each chapter presents typical patient histories providing key learning points and key references for clinical problem solving in family medicine, paediatric endocrinology and medical genetics.

Providing a succinct update on clinical paediatric thyroidology, this book is an essential tool for paediatric and adult endocrinologists, as well as for general practitioners, paediatricians and medical geneticists.

Endocrine Development, Vol. 26

Paediatric Thyroidology

Editor: Szinnai, G. (Basel)

VIII + 252 p., 51 fig., 17 in color, 26 tab., 2014

CHF 198.– / EUR 165.– / USD 233.00 (hard cover)

CHF 238.– / EUR 198.– / USD 280.00 (online)

Online version for institutional purchase

Prices subject to change

EUR price for Germany

USD price for USA and Latin America only

ISBN 978-3-318-02720-4 (hard cover)

e-ISBN 978-3-318-02721-1

Fields of Interest: Endocrinology;
Pediatrics; Pediatric Endocrinology,
Neonatology, Genetics

www.karger.com/endev

KARGER

Order Form

Endocrine Development

Please send:

☐ copy/ies: **Vol. 26: Paediatric Thyroidology**
CHF 198.00 / EUR 165.00 / USD 233.00 (hard cover)
ISBN 978-3-318-02720-4 (hard cover)

☐ copy/ies: **Vol. 25: The Ghrelin System**
CHF 180.00 / EUR 150.00 / USD 212.00 (hard cover)
ISBN 978-3-8055-9908-5 (hard cover)

☐ copy/ies: **Vol. 24: Hormone Resistance and Hypersensitivity**
CHF 168.- / EUR 140.- / USD 198.00 (hard cover)
ISBN 978-3-318-02267-4

☐ copy/ies: **Vol. 23: Developmental Biology of GH Secretion, Growth and Treatment**
CHF 156.- / EUR 130.- / USD 184.00 (hard cover)
ISBN 978-3-318-02244-5

☐ copy/ies:

ISBN 978-3-318-

☐ the book series **Endocrine Development**
on continuation beginning with vol.

☐ information on vols.

All Karger series are available on continuation. Each volume will be sent upon publication until order is countermanded.

For easy ordering or further information about the series log on to: www.karger.com/endev

Postage and handling free with prepayment

Payment

Please charge this order to my credit card

☐ American Express ☐ Diners
☐ Visa ☐ Mastercard

Card No.:

Exp. date:

CVV/CVC:

☐ Check enclosed ☐ Please bill me

Name/Address (please print):

E-Mail:

Date:

Signature:

Orders can be placed at agencies, bookstores, directly with the publisher, or with any Karger distributor.

S. Karger AG, P.O. Box, 4009 Basel (Switzerland)
f: +41 61 306 12 34, e: orders@karger.com
USA: S. Karger Publishers, Inc., 26 West Avon Road,
P.O. Box 529, Unionville, CT 06085
Toll free: +1-800-828-5479

Germany: S. Karger GmbH, 79095 Freiburg

France: Enter & Read, Albertine Luginbuhl, 75014 Paris

Japan: Karger Japan, Inc., Tokyo 105-0012

South East Asia, China and Taiwan:

Karger China, Beijing 100020

For details and further representatives and agencies see

www.karger.com/worldwide

Communicating scientific advances in a clinical context

Endocrine Development

Series Editor: **Mullis, P.-E.** (Bern)

ISSN 1421-7082, e-ISSN 1662-2979

Listed in MEDLINE/PubMed

This series is devoted to specific areas of fetal, neonatal, pediatric and adolescent endocrinology. It addresses a wide range of relevant issues in the context of a well-defined subject and covers new areas of clinical and basic research. Clear evidence-based guidelines on clinical management by highly qualified basic and clinical scientists who present their clinically relevant recent findings are also provided. Bringing together experts from related disciplines such as fetal and perinatal medicine, epidemiology, public health, molecular endocrinology, radiology and adult endocrinology, the volumes cover a broad spectrum in endocrine development.

Vol. 25

The Ghrelin System

Editors: Benso, A. (Turin); Casanueva, F.F. (Santiago de Compostela); Ghigo, E. (Turin); Granata, R. (Turin)
VIII + 172 p., 16 fig., 2 in color, 4 tab., 2013
CHF 180.00 / EUR 150.00 / USD 212.00 (hard cover)
CHF 216.00 / EUR 180.00 / USD 254.00 (online)
ISBN 978-3-8055-9908-5 (hard cover)
e-ISSN 978-3-8055-9909-2

Vol. 24

Hormone Resistance and Hypersensitivity From Genetics to Clinical Management

Editors: Maghnie, M. (Genoa); Loche, S. (Cagliari); Cappa, M. (Rome); Ghizzoni, L. (Turin); Lorini, R. (Genoa)
VIII + 160 p., 26 fig., 7 in color, 10 tab., 2013
CHF 168.- / EUR 140.- / USD 198.00 (hard cover)
CHF 202.- / EUR 168.- / USD 238.00 (online)
ISBN 978-3-318-02267-4 (hard cover)
e-ISSN 978-3-318-02268-1

Vol. 23

Developmental Biology of GH Secretion, Growth and Treatment

Editor: Mullis, P.-E. (Bern)
VIII + 126 p., 22 fig., 1 in color, 10 tab., 2012
CHF 156.- / EUR 130.- / USD 184.00 (hard cover)
CHF 187.- / EUR 156.- / USD 221.00 (soft cover)
ISBN 978-3-318-02244-5 (hard cover)
e-ISSN 978-3-318-02245-2

Vol. 1-2 available, please ask for details

Online version for institutional purchase
Prices subject to change
EUR price for Germany, USD price for USA and Latin America only

To be ordered through

www.karger.com/endev

KARGER