Caring for children born small for gestational age

Editor in chief Siegfried Zabransky

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Vorwort - Inhalt - Author Biography (S.Zabransky)

Contributors

Preface

During the last few years, many scientific articles related to several aspects of children born small for gestational age (SGA) or exposed to intrauterine growth restriction (IUGR) have been published by endocrinologists and other medical experts.

The intention of this book is to summarize the most important topics about SGA/IUGR from a practical point of view.

The target audience for this book is gynecologists, obstetricians, midwives, neonatologists, pediatricians, endocrinologists, neurologists,
psychiatrists, and nutritionists, as well as general practitioners and family practice physicians.

The estimated frequency of children born SGA and/or IUGR varies from 3%–10% of all live births. Being born SGA and exposure to IUGR are contributors to the morbidity and mortality of newborns, particularly in underdeveloped areas of Asia and Africa where undernutrition and malnutrition are the frequent causes of disturbances to fetal growth. In so-called ‘developed countries’ with relatively higher living standards, avoidable causes of fetal growth restriction, such as alcohol consumption and smoking, can prevent normal fetal development.

Depending on when growth disturbances begin and the causes, there are numerous acute consequences and long-term effects of being born SGA. Initially, gynecologists, obstetricians, and neonatologists are involved but, later in childhood and during puberty, pediatricians, (especially pediatric endocrinologists and neurologists) may also have a role in providing patient care. In adulthood, metabolic syndrome and cardiovascular diseases are considered the most serious long-term effects and require continued medical care. Thus, despite being a condition that may begin before birth, it can be a lifelong condition that requires medical care across several specialities.

This book summarizes normal fetal development and interferences of fetal growth, as well as acute and long-term consequences. Prevention and pre-natal and post-natal care are described and considerations for future research are also discussed.
## Contents

Preface xiii, Acknowledgements xv

1 **Fetal development** *(Siegfried Zabransky)*
   - Prenatal development 1
   - Measuring fetal growth 3
   - Regulation of fetal growth 4
   - References 7

2 **Intrauterine aspects** *(Kai-Dietrich Nüsken)*
   - Fetoplacental unit 11
   - Fetal nutrition 11
   - Oxygenation of the fetoplacental unit 18
   - References 21

3 **Maternal nutrition** *(Siegfried Zabransky)*
   - Introduction 25
   - Caloric requirements 25
   - Weight gain 25
   - Composition of nutrients 26
   - Hygienic precautions 31
   - References 32

4 **Prenatal care, surveillance, and risk assessment**
   - Anke Ertan, A Kubilay Ertan
   - Introduction 35
   - Evaluation of risk factors 36
   - Estimation of gestational age 36
   - Ultrasound screening 37
   - Prenatal care in Germany: the Mutterpass 41
   - References 43
5 Birth weight percentiles: an international comparison
Niels Rochow, Manfred Voigt, Dirk Olbertz, Sebastian Straube

Somatic development of neonates 45
Factors influencing birth weight 46
Limitations of current percentile curves 50
References 52

6 Fetal growth restriction: definitions, causes, and epidemiology
Siegfried Zabransky

Terminology 57
Causes of intrauterine growth restriction and SGA 60
Maternal intake of harmful substances 64
Placental and cord-related factors 68
Epidemiology 69
Intrauterine growth restriction sequelae 70
References 71

7 Obstetrical aspects (Ralf L Schild)

Classification 77
Diagnosing fetal growth restriction 77
Monitoring 79
Timing of delivery 80
Delivery method 80
References 81

8 Placental function in intrauterine growth restriction 83
Berthold Huppertz

Introduction 83
Features of growth restriction 83
Early trophoblast development 84
Extravillous trophoblast invasion 85
Intrauterine growth restriction and alterations of trophoblast and placenta 89
Placental origins of intrauterine growth restriction and preeclampsia 92

4
9 Placental function: predicting impairment 97
Anja Tzschoppe, Regina Trollmann, Fabian Fahlbusch, Kai-Dietrich Nüsken, Eva Nüsken, Jörg Dötsch, Ellen Struwe, Ralf Schild

Introduction 97
Intrauterine growth restriction and perinatal programming 98
Disease prediction 98
Prediction of later disease via placenta analysis 101
Conclusion 102
References 102

10 The role of genetics and epigenetics in growth restriction 105
Thomas Eggermann

Introduction 105
Genetic determinants of fetal growth 105
Chromosomal disturbances 106
Monogenic causes of intrauterine growth restriction 108
Epigenetic influences on human growth 110
Application of high-throughput technologies 113
References 115

11 Fetal programming (Thomas Harder and Andreas Plagemann)

Introduction 117
Small baby syndrome hypothesis and match-mismatch paradigm 117
A critical appraisal 118
Neonatal nutrition 119
The ‘match-mismatch’ paradigm: a general hypothesis? 121
Conclusion 122
References 123
12 Premature infants (Martijn JJ Finken) 127

Introduction 127
Growth 128
Growth hormone therapy 131
Assessing size at preterm birth 131
Blood pressure 132
Glucose availability 133
Adrenocortical function 134
Thyroid function 136
Bone metabolism 139
Long-term endocrine sequelae 139
References 140

13 Term newborns (Axel Huebler) 149

Introduction 149
Disorders of the newborn 150
Nutrition 155
Growth 157
Care around birth 162
References 164

14 Endocrine regulation of fetal growth (Nordie Bilbao and Paul Saenger) 169

Introduction 169
Glucose metabolism and obesity 171
Growth and short stature 175
Hypothalamic-pituitary-adrenal axis 178
Effects on reproductive system 179
Effects on other organ systems 180
Epigenetics: the missing link between intrauterine growth restriction and long-term health effects? 182
References 182
### 15 Growth hormone treatment (Roland Schweizer and David D Martin)

Introduction 189  
Requirements of the regulatory authorities for growth hormone treatment 189  
Growth during growth hormone treatment 190  
Predictive factors for response during growth hormone treatment 194  
Combination of growth hormone and gonadotropin-releasing hormone agonist treatment 196  
Side effects 196  
The growth hormone insulin-like growth factor 1 axis 197  
Changes in psychosocial features and body composition 198  
Changes in carbohydrate and lipid metabolism and blood pressure 200  
Summary 201  
References 202

### 16 Renal function (Jörg Dötsch)

Introduction 207  
Low birth weight and renal function 207  
Causes of fetal programming 208  
Perinatal programming and energy deficiency 208  
Glomerular disease in childhood and relation to birth weight 210  
Intrauterine growth restriction and later morbidity: animal models 211  
Mechanisms contributing to fetal programming 212  
Postnatal modification 215  
Perinatal programming 217  
References 220

### 17 Pancreatic development (Patricia Vuguin and Paul Saenger)

Introduction 225  
Overview of pancreatic morphogenesis 226  
Programming of endocrine pancreas by an altered intrauterine milieu 232
18 Metabolic syndrome (Thomas Reinehr)

Introduction 241
Cardinal factors 243
Defining metabolic syndrome 244
Indications for therapy 246
Conclusion 249
References 249

19 Cardiovascular risks and diseases (Prakash M Kabbur, Nisha I Parikh)

Introduction 251
SGA as a primordial cardiovascular disease risk factor 251
Catch-up growth and cardiovascular disease 253
Subclinical cardiovascular disease 254
Conclusion 256
References 256

20 Ophthalmological findings and visual function disorders
Barbara Käsmann-Kellner

Introduction 259
Altered retinal vascular architecture 260
Other ophthalmological sequelae of SGA 263
Postchiasmatic visual pathway and visual cortex 265
Functional impairments 266
Major visual pathways 268
Conclusion 269
References 274

21 Auditory function disorders (Philipp S van de Weyer and Peter K Plinkert)

Introduction 277
Auditory development 277
Auditory dysfunction in children born small for gestational age 278
Diagnosing and treating auditory disorders
22 Neurological, neurocognitive, and behavioral aspects
Fritz Haverkamp

Introduction
Neurological and visuosensory handicaps
Intelligence, neurocognitive domains, and learning
Behavioral and emotional problems
SGA-related risk factors
General risk factors
Socioeconomic status
A biopsychosocial model of psychomotor development in SGA
References

23 Prevention and long-term care (Siegfried Zabransky)

24 Considerations for future research
Jörg Dötsch, Miguel A Alejandre Alcázar, Sarah Appel, Ruth Kuschewski, Eva Nüsken, Kai Nüsken, Eva Rother

Future research
Interventional studies
Author biography

Professor Dr. Med. Siegfried Zabransky studied human medicine at the University Erlangen-Nuernberg/Bavaria and University Innsbruck/Austria and received his PhD (Dr Med) from the University of Erlangen.

He underwent his clinical training at the Hospital Eichstätt/Bavaria and at the children’s hospital at the University of Erlangen-Nuernberg in surgery, gynecology, internal medicine, pediatrics.

Professor Zabransky was house office at the University of Erlangen-Nuernberg, the Institute of Nuclear Medicine Free University Berlin and the children’s hospital at the University Free University, Kaiserin Auguste Victoria Haus, where he became an assistant professor.

Professor Zabransky served as assistant medical director and head of section of pediatric endocrinology and diabetology at the University of Saarland in Homburg until 2002, where he provided support to approximately 50 doctoral candidates.

He was also head of the screening laboratory and poison control center of Saarland. His research interests include work done in hormones at the University of Goettingen (under Professor Dr. A. von zur Mühlen) and University of Munich (under Professor Scriba), and in the children’s hospital of the University of Pittsburgh (in the research laboratory of Professor Foley).
Additional research interests include newborn screening for endocrine and metabolic diseases, thyroid diseases in children, growth (inter alia growth study with evaluation of new growth charts for children; functional tests), puberty, and other general topics of pediatric endocrinology. He has over 100 publications, including 5 books.

He is currently Head of Institute for Pediatric Endocrinology and Preventive Medicine (IPEP), Head of Medizinischer - Verlag Siegfried Zabransky, and works as a consultant.

From 2003, he has organized the annual proceedings of interdisciplinary SGA workshops and serves as editor-in-chief (www.sga-syndrom.de).

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