Growth is universally used by health care professionals and caregivers to judge the physical condition of babies and children: poor growth in early life has a negative impact on cognitive development and morbidity, whereas rapid and excessive growth is associated with a higher prevalence of obesity and cardiovascular disease. This publication explores in some detail the relationship between early growth patterns and later neurodevelopment, obesity, cardiovascular outcomes and longevity in both industrialized and semi-industrialized societies. It consists of three parts that each deals with a specific topic: The first part focuses on the connection between early growth and obesity and cardiovascular outcomes. The next section concentrates on the interrelationship between growth and neurological development, and the last part is dedicated to the control and assessment of physical growth.

Bringing together the expert opinions of outstanding clinicians and scientists, this book will be of particular value for pediatricians, public health scientists and epidemiologists.

Contents

Preface
Foreword
Contributors

Introduction

Growth and Later Health: A General Perspective: Lucas, A.

Growth, Obesity and CV Outcomes

Early Infancy as a Critical Period for Development of Obesity and Related Conditions: Gillman, M.W.
Leptin, Nutrition, and the Programming of Hypothalamic Feeding Circuits: Bouret, S.G.

Early Growth and Ageing: Chen, J.-H.; Cotтреll, E.C.; Oзanne, S.E.

Does Early Growth Affect Long-Term Risk Factors for Cardiovascular Disease? Singhal, A.

Developing World Perspective: The Importance of Growth for Short-Term Health: Adair, L.S.

Postnatal Growth and Development in the Preterm and Small for Gestational Age Infant: Cooke, R.J.

Interrelationship between Growth and Development in Low and Middle Income Countries: Martorell, R.; Nguyen, P.

Role of Long-Chain Polynsaturated Fatty Acids in Neurodevelopment and Growth: Makrides, M.; Smithers, L.G.; Gibson, R.A.

Benefits and Harms of Iron Supplementation in Iron-Deficient and Iron-Sufficient Children: Domelöf, M.

Growth Charts Compared: Ziegler, E.E.; Nelson, S.E.

Body Composition in Infancy: Impact on Health Later in Life: Ellis, K.J.

Endocrinology of Growth: Rosenfeld, R.G.

Concluding Remarks

Nestlé Nutrition Institute Workshop Series
Pediatric Program, Vol. 65

Importance of Growth for Health and Development

Editors
Alan Lucas
Maria Makrides
Ekhard E. Ziegler

Fields of Interest:
Nutrition, Pediatrics, Cardiovascular System, Obesity, Neurology, Physiology

www.karger.com/nepep

The book series Nestlé Nutrition Workshop Series Pediatric Program on continuation beginning with Vol. ______

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

Postage and handling free with prepayment

For easy ordering or information about other Karger publications log on to: www.karger.com

Payment
- Check enclosed
- Please bill me
- Please charge to my credit card
  - American Express
  - Diners
  - Eurocard
  - MasterCard
  - Visa

Card No.: ________________

Exp. date: ________________

Name/Address: ________________

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)
Fax +41 61 306 12 34, E-Mail orders@karger.ch
USA: S. Karger Publishers, Inc., 26 West Avon Road, P.O. Box 526, Unionville, CT 06085 (USA), Toll free: 1-800-828-5479
Germany: S. Karger GmbH, 79095 Freiburg
France: Librairie Médi-Sciences, 75007 Paris
Gulf Council Countries, Iran, Middle East, North Africa, Turkey: Trans Middle East Internat. Distribution Co. Ltd., Kažba, Amman 11953 (Jordan)
Japan: Karger Japan, Inc., Tokyo 113-0034
China, Hong Kong, Taiwan, Malaysia, Indonesia: Karger China, Shanghai 200040 (China)

For details and further representatives and agencies see www.karger.com/worldwide