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Protein plays a vital role in growth and development and is able to ‘program’ healthy growth by influencing gene methylation for positive long-term health outcomes. The understanding of these mechanisms is critical to support and improve the health of future generations in both the short and long term. The first part of this book reviews the role of hydrolyzed proteins in infant feeding and the evidence-based benefits of their use in non-breastfed infants at risk of allergy and in infants with functional gastrointestinal disorders. The second part focuses on human milk and its potential alternatives in the feeding of healthy term infants. The final section is dedicated to preterm infants, their nutrition needs, and physiological capacities to ingest adequate amounts of protein for appropriate growth and development.

Presenting the latest scientific findings on protein in early nutrition, this publication provides essential reading for pediatricians and researchers alike.

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Concluding Remarks

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In order to provide safe and effective drug therapy to neonates, it is necessary to know about and understand the impact their development has on the pharmacokinetics and pharmacodynamics of drugs. The fact that children are different and neonates very different from adults means that, in neonates, it would be unwise to dose medications by scaling down adult doses proportionately, simply attempting to match their smaller weight and/or body surface area. When one makes decisions about neonatal drug therapy, one must not only take into consideration the available data but also critically assess and interpret this information within the context of fetal development and maturational processes as well as within the context of diseases that might affect a drug's biodisposition. This book includes the latest information on the regulation and scientific basis of drug development and also provides a rationale for formula development for preterm infants. It offers guidance on how to translate pharmacokinetic data into dosing recommendations and also covers legal and regulatory issues relating to neonatal pharmacotherapy.

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Interventional Neurology
Founded: 2012
Category: Clinical Research
Field of Interest: Neurology
Listed in bibliographic services, including: PubMed/PubMed Central, Web of Science, Google Scholar, Embase
2017: Volume 6
4 issues per volume
Language: English
ISSN 1664–9737
e-ISSN 1664–5545

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• Duplication of the Posterior Cerebral Artery and the ‘True Fetal’ Variant: Masoud, H.; Nguyen, T.N.; Thatcher, J.; Barest, G.; Norbash, A.M. (Boston, Mass.)
• Expanding Endovascular Therapy of Very Small Ruptured Aneurysms with the 1.5-mm Coil: Nguyen, T.N.; Masoud, H.; Tarlov, N. (Palm Springs, Calif); Holzapfl e, J. (Boston, Mass); Chin, L.S. (Syracuse, N.Y.); Norbash, A.M. (Boston, Mass.)
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Adequate nutrition is a crucial component for child growth. Under- or malnutrition may not only affect present and future growth, but also a child’s ability to develop skills. Tremendous efforts are being made to try and understand the mechanisms leading to stunted growth, proper diet composition, and an appropriate rehabilitation diet for children suffering from under- or malnutrition in all age groups during the growth period.

In this publication, specialists in nutrition and growth present some of the best studies from peer-reviewed journals published between July 2015 and June 2016. Each paper is briefly summarized and supplemented with editorial comments which evaluate the clinical importance of each article and discuss its application. This ‘Yearbook’ is an important tool for practicing physicians, including pediatricians, subspecialists in pediatric gastroenterology, metabolism and nutrition, and endocrinology. Nutritionists and dieticians, as well as other health professionals involved in the care of children, will also find this to be a useful resource.

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