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Louise Kenny; Section II. Nutritional Regulation and Requirements for Lactation and Infant Growth: 7. Macronutrients for lactation and infant growth Thibault Senterre, Jacques Rigo; 8. Changes in nutrient requirements with age after birth Christopher H. Knight; 9. Comparison between preterm and term infants Mary Fewtrell and Sirinuch Chomtho; 10. Influences of timing and duration of formula feeding on infant growth William C. Heird; 11. Maternal and offspring benefits of breastfeeding Alison C. Tse and Karin B. Michels; section III. Specialized Requirements: 12. Teenage pregnancies Annie S. Anderson and Wendy Wrieden; 13. Vegetarians and vegans during pregnancy and lactation Rana Conway and Adrienne Cullum; 14. Hyperemesis in pregnancy James D. Paauw and Alan T. Davis; 15. Multiple pregnancy Barbara Luke; 16. Mineral and vitamin supplementation before, during and after conception Y. Ingrid Goh; 17. Determinants of egg and embryo quality: long term effects of maternal diet and assisted reproduction Kevin D. Sinclair and Wing Yee Kwong; 18. Nutrition, environment and epigenetics Ian M. Morison and Wolf Reik; Index.

Sommario/riassunto

Improving clinicians' understanding of effects nutrition can have on maternal health and fetal and neonatal development can have considerable impact on achieving a healthy pregnancy and reducing childhood morbidity. This book defines the nutritional requirements with regard to each stage of fetal development and growth, placing scientific developments into a clinical context. Clinicians and scientists discuss: how the fetus grows and what macro- and micronutrients it requires; what happens when there is nutrient deficiency and when placental development is abnormal; aspects of infant feeding, both with breast milk and formula milk. Specific problems encountered in pregnancy that pose a nutritional challenge are also considered, including pregnancy in teenagers, multiple pregnancies and pregnancy in those who are vegetarians or vegans. All doctors, health-care workers or scientists who either care for women, their newborn and growing infants, or who are involved in research in these areas, will find this to be essential reading.
