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J. Guillette Jr; 9. Environmental contaminants and effects on timing and progression of human pubertal development Annette Mouritsen, Julie Damm, Lise Aksglaede, Kaspar Sørensen and Anders Juul; 10. Environmental contaminants and impacts on healthy and successful pregnancies Re;my Slama and Sylvaine Cordier; 11. Environmental contaminants and the reproductive and fertility effects in the male: 11.1. Introduction Sarah J. Janssen; 11.2. Environmental contaminants and male reproductive health: possible role of fetal exposure Jorma Toppari, Helena E. Virtanen and Niels E. Skakkebaek; 11.3. Environmental contaminants and male reproductive health: adult exposure and effects on fertility John D. Meeker and Russ Hauser; 12. Environmental contaminants, female reproductive health and fertility Pauline Mendola and Germaine M. Buck Louis; 13. Environmental contaminants and related systems that have implications for reproduction: 13.1. The neuroendocrine system Andrea C. Gore; 13.2. The thyroid system R. Thomas Zoeller and John D. Meeker; 13.3. The immune system Robert W. Luebke and Dori R. Germolec; 14. Environmental contaminants and cancers of the reproductive tract Gail S. Prins and Esther L. Calderon; 15. Communicating with patients and the public about environmental exposures and reproductive risk Gina M. Solomon and Sarah J. Janssen; 16. Interpreting science in the policy context Tracey J. Woodruff and Sarah J. Janssen; 17. Conclusions - what does all this mean and where are we going? Shanna H. Swan, Patricia Hunt and Linda C. Giudice; Index.

Sommario/riassunto

Many reproductive and developmental health problems are caused by exposure to chemicals that are widely dispersed in our environment. These problems include infertility, miscarriage, poor pregnancy outcomes, abnormal fetal development, early puberty, endometriosis, and diseases and cancers of reproductive organs. The compelling nature of the collective science has resulted in recognition of a new field of environmental reproductive health. Focusing on exposures to environmental contaminants, particularly during critical periods in development and their potential effects on all aspects of future reproductive life-course, this book provides the first comprehensive source of information bringing together the arguments that are spread out among various scientific disciplines in environmental health, clinical and public health fields. It provides a review of the science in key areas of the relationship between environmental contaminants and reproductive health outcomes, and recommendations on efforts toward prevention in clinical care and public policy.

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