

# TEXTBOOK OF CHILDREN'S ENVIRONMENTAL HEALTH

EDITED BY PHILIP J. LANDRIGAN AND RUTH A. ETZEL

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"It's hard to imagine a more comprehensive, thorough resource on children's environmental health than this book. It ranges from cutting-edge science to trenchant policy analysis, with a dream team of expert editors and authors. This is the definitive work on the subject."

— Howard Frumkin, MD, DrPH, Dean and Professor of Environmental and Occupational Health Sciences, University of Washington School of Public Health

"Phil Landrigan and Ruth Etzel have compiled an authoritative review of pediatric environmental health information that moves the field ahead clinically and in the policy arena. This book provides the fundamental information in environmental health for the early 21st century."

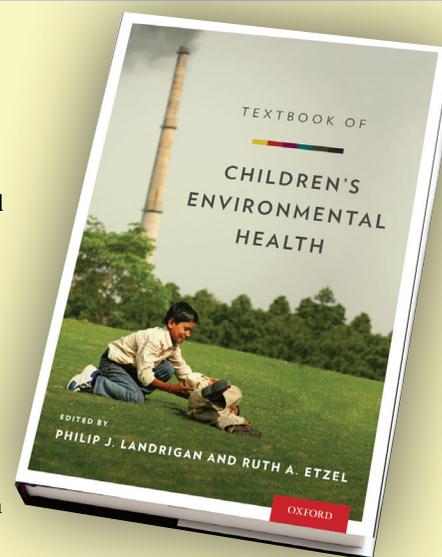
— Judith Palfrey, MD, Boston Children's Hospital, Harvard Medical School

Over the past four decades, the prevalence of autism, asthma, ADHD, obesity, diabetes, and birth defects have grown substantially among children around the world. Not coincidentally, more than 80,000 new chemicals have been developed and released into the global environment during this same period. Today the World Health Organization attributes 36% of all childhood deaths to environmental causes.

Children's environmental health is a new and expanding discipline that studies the profound impact of chemical and environmental hazards on child health. Amid mounting evidence that children are exquisitely sensitive to their environment—and that exposure during their developmental "windows of susceptibility" can trigger cellular changes that lead to disease and disability in infancy, childhood, and across the life span—there is a compelling need for continued scientific study of the relationship between children's health and environment.

This *Textbook of Children's Environmental Health* codifies the knowledge base and offers an authoritative and comprehensive guide to this important new field. Edited by two internationally recognized pioneers in the area, this volume presents up-to-date information on the chemical, biological, physical, and societal hazards that confront children in today's world.

With an emphasis upon integrating theory and practice, this textbook offers practical approaches to channeling scientific findings into strategies for preventing and identifying environmental hazards that cause disease in children. It is a landmark work that will serve as the field's benchmark for years to come.



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**PHILIP J. LANDRIGAN, MD, MSC**, is a pediatrician, epidemiologist, and internationally recognized pioneer in children's environmental health. His studies of childhood lead poisoning catalyzed the removal of lead from gasoline—an action that reduced childhood lead poisoning by 95% and has raised the IQ of children around the world. His studies on children's vulnerability to pesticides triggered passage of the Food Quality Protection Act, the only US environmental law with explicit standards protecting the health of children. He has been a leader in the US National Children's Study. He has consulted to the World Health Organization, published seven books, and written over 600 scientific articles.

**RUTH A. ETZEL, MD, PHD**, is an internationally recognized pediatrician, environmental epidemiologist, and preventive medicine specialist. She performed the first study to document that children with secondhand exposure to tobacco smoke had measurable exposure to nicotine. Her pioneering work led to nationwide efforts to reduce indoor exposures to tobacco, including the ban on smoking in US airliners. She also produced the first research to show that exposures to toxigenic molds in the home could be dangerous to infants' health. From 2009-2012 she led the World Health Organization's activities to protect children from environmental hazards. She is the editor of *Pediatric Environmental Health*, a handbook for doctors who care for children.

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