

Developing the 3rd Edition of AAP's Pediatric Environmental Health (Green Book)

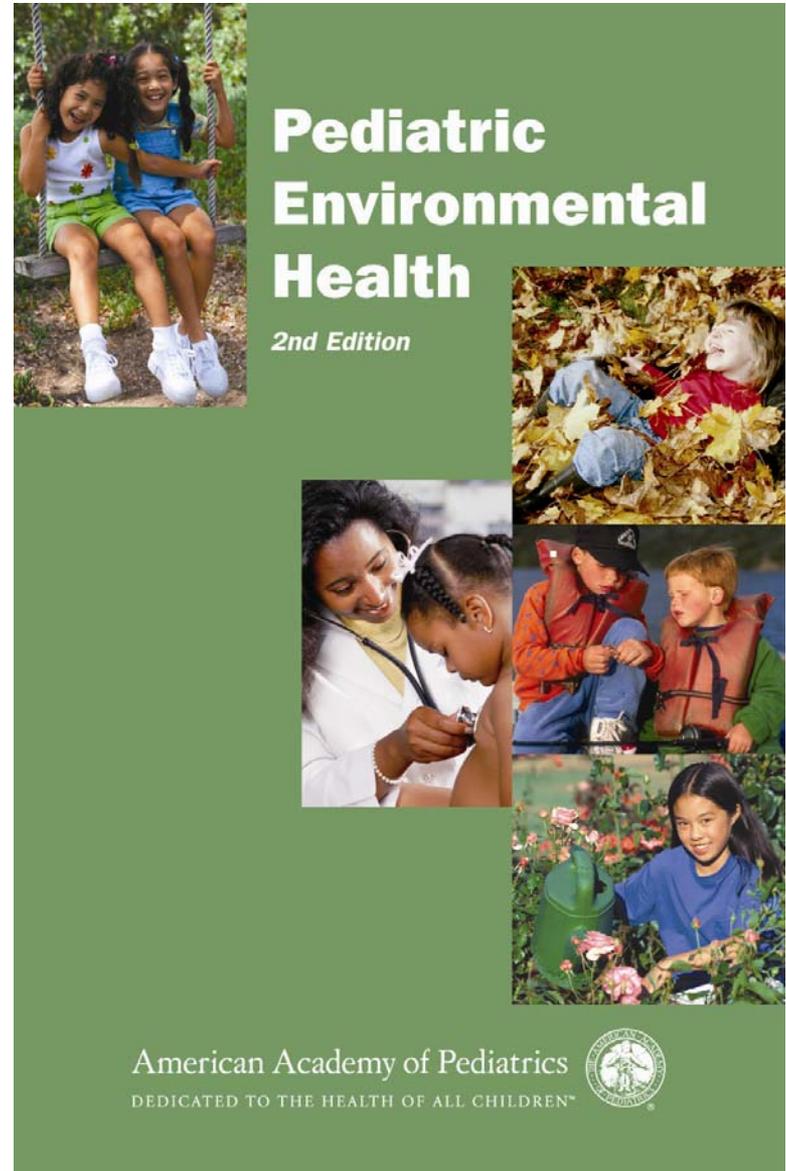
Helen Binns, MD, MPH

Representing:

American Academy of Pediatrics
Council on Environmental Health (COEH)

American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN™



American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN™



Green Book History

Founding and current editors:

- Ruth A. Etzel, MD, PhD; *Editor*
- Sophie J. Balk, MD; *Associate Editor*

- First edition
 - 1999
 - Distribution 27,000 copies
 - 33 chapters & 6 appendices. 43 listed contributors.
 - 3+ year process
- Second edition
 - 2003
 - Distribution 25,000 copies
 - 43 chapters & 6 appendices. 61 listed contributors.
- Third edition
 - 2011
 - Paper and electronic access
 - 59 chapters & 6 appendices. 70+ listed contributors anticipated.

Green Book, 3rd Edition

- Green Book content is considered AAP policy.
- Began revisions process in 2007.
- COEH members
 - 9 pediatricians
 - Interest/expertise in environmental health
 - Geographically and topically diverse
 - 2 AAP staff with COEH history, gov't relations
 - liaisons from CDC, NIEHS, EPA, & NCI

Green Book, 3rd Edition

Development Process

1. Identified gaps from current book, based on:

– Background

- Several pediatric toxicologists
- Emergency dept and general peds
- Bench and clinical research and clinical care
- Expertise in emergency services, asthma, general peds, research, air quality, metals lab, policy/advocacy, lead, tobacco, cancer, epidemiology, environmental education

– Experience

- In clinical settings
- Consultative calls from other pediatricians
- Familiarity with 'hot topics'

2. Review with editors

Chapters Retained from 2nd Edition

3rd Ed, section	3 rd Ed. Chapter name	
I. Background: Addressing Environmental Health in Primary Care	<ul style="list-style-type: none"> ➤ Introduction ➤ Children’s Unique Vulnerabilities to Environmental Hazards 	<ul style="list-style-type: none"> ➤ Taking an Environmental History and Giving Anticipatory Guidance
II. Environments	<ul style="list-style-type: none"> ➤ Preconceptional and Prenatal Exposures ➤ Child Care Settings ➤ Schools ➤ Waste Sites 	<ul style="list-style-type: none"> ➤ Work Places ➤ Environmental Health Considerations for Children in Developing Nations, and Implications for Immigrants and Adoptees
III. Food and Water	<ul style="list-style-type: none"> ➤ Breast Milk ➤ Water 	<ul style="list-style-type: none"> ➤ Food Safety ➤ Herbs, Dietary Supplements and Other Remedies
IV. Chemical and Physical Exposures	<ul style="list-style-type: none"> ➤ Air Pollutants, Indoor ➤ Air Pollutants, Outdoor ➤ Arsenic ➤ Asbestos ➤ Carbon Monoxide ➤ Chromium, Manganese, and Nickel ➤ Electric and Magnetic Fields ➤ Endocrine Disrupters ➤ Gasoline and its Additives ➤ Ionizing Radiation (Excluding Radon) 	<ul style="list-style-type: none"> ➤ Lead ➤ Mercury ➤ Nitrates and Nitrites in Water ➤ Noise ➤ Persistent Organic Pollutants - DDT, PCBs, PCDFs, and Dioxins ➤ Pesticides ➤ Tobacco Use and Secondhand Tobacco Smoke Exposure ➤ Ultraviolet Radiation
V. Special Topics	<ul style="list-style-type: none"> ➤ Arts and Crafts ➤ Asthma ➤ Cancer ➤ Chemical-Biological Terrorism 	<ul style="list-style-type: none"> ➤ Multiple Chemical Sensitivities ➤ Nontherapeutic Use of Antibiotics in Animal Agriculture
VI. Public Health Aspects of Environmental Health	<ul style="list-style-type: none"> ➤ Risk Assessment, Risk Management, and Risk Communication 	<ul style="list-style-type: none"> ➤ Environmental Health Advocacy
VII. Resources	<ul style="list-style-type: none"> ➤ Resources for Children’s Environmental Health 	<ul style="list-style-type: none"> ➤ Curricula for Environmental Education and Environmental Health Science Education in Primary and Secondary Schools

New Chapters, 3rd Edition

3 rd Edition, section	3 rd Ed, chapter – 19 NEW chapters
I. Background: Addressing Environmental Health in Primary Care	History and Growth of Pediatric Environmental Health
	Individual Susceptibility to Environmental Toxicants
	Medical Laboratory Testing of Body Fluids and Tissues
	Environmental Measurements
II. Environments	Built Environment
III. Food and Water	Phytoestrogen and Contaminants in Infant Formula
IV. Chemical and Physical Exposures	Cold and Heat
	Persistent Toxic Substances
	Plasticizers
	Radon (In 2nd edition, addressed within the “Ionizing Radiation”)
V. Special Topics	Birth Defects and Other Adverse Developmental Outcomes
	Chelation for “Heavy Metal” Toxicity
	Developmental Disabilities
	Drug (Methamphetamine) Laboratories
	Emerging Technologies and Materials
	Environmental Disasters
	Ethical Issues
	Global Climate Change
VI. Public Health Aspects of Env Health	Precautionary Principle

Green Book, 3rd Edition

Development Process *(continued)*

- 3. COEH and editors identify experts to lead revisions, writing for each chapter**
 - Editors twist arms 😊
- 4. Writers update (track changes) or write**
- 5. Each chapter reviewed by COEH & editors for content**
 - 1 primary reviewer
 - all expected to read and comment
- 6. Phone call to discuss each chapter**
 - about 3 chapters/hour

Green Book, 3rd Edition

Development Process *(continued)*

- 7. Primary reviewer submits written comments/edits**
- 8. Comments sent to writer**
 - Sometimes changes by COEH members or editors (especially stuff needing extensive revisions)
- 9. Revisions back to editors for review**
- 10. Each editor reviews (primary & secondary)**
- 11. Editors and writers negotiate further changes as necessary**
- 12. Chapters to AAP medical copy editor**

Green Book, 3rd Edition

Development Process *(continued)*

13. Send list of chapters to all AAP committees and sections

– Each chooses what chapters they want to review

- Committee on Bioethics
- Committee on Communications and Media
- Committee on Bioethics
- Committee on Communications and Media
- Committee on Drugs
- Committee on Early Childhood, Adoption, and Dependent Care
- Committee on Federal Affairs
- Committee on Fetus and Newborn
- Committee on Infectious Diseases
- Committee on Native American Child Health
- Committee on Nutrition
- Committee on Pediatric Emergency Medicine
- Committee on Pediatric Research
- Committee on Practice and Ambulatory Medicine
- Committee on School Health
- Committee on State Government Affairs
- Committee on Substance Abuse
- Complementary and Integrative Medicine
- Council on Communications and Media
- Council on School Health
- Council on Sports Medicine and Fitness
- Council on Substance Abuse
- Disaster Preparedness Advisory Council
- Richmond Center of Excellence
- Section on Adolescent Health
- Section on Asthma and Immunology
- Section on Bioethics
- Section on Breastfeeding
- Section on Cardiology
- Section on Clinical Pharmacology and Therapeutics
- Section on Complementary and Integrative Medicine
- Section on Dermatology
- Section on Endocrinology
- Section on Gastroenterology, Hepatology, and Nutrition
- Section on Genetics and Birth Defects (Saul)
- Section on Hematology/Oncology
- Section on Infectious Diseases
- Section on Nephrology
- Section on Otolaryngology – Head and Neck Surgery
- Section on Pediatric Pulmonology
- Section on Pharmacology and Therapeutics

Green Book, 3rd Edition

Development Process *(continued)*

- 14. Completed chapters sent to committees & sections for review**
 - 1 month turn-around
- 15. Written responses back to editors**
- 16. Editors respond by making revisions**
- 17. Final approval editors & COEH chair**
- 18. AAP board approval**
 - 3 primary reviewers for the Board
- 19. Respond to Board comments**
- 20. Back to Board for final approval**
- 21. Publication**