

Children's Health Protection Advisory Committee

EPA CHPAC

Presentation to SAB
September 21, 2010



CHPAC Presentation

- Purpose of the CHPAC, history, members
- Past activities, topics of recommendations
- Current activities
- Areas of mutual interest

Purpose

CHPAC will provide advice, information and recommendations to assist EPA in the development of regulations, guidance and policies to address children's health.

History

- Established 1998
 - ...to address the prevention of adverse health effects to children
 - Identify five regulations for EPA to reevaluate
- Charter most recently renewed in 2009
- Operating Principles and Procedures, revised 2008
- CHPAC web site for letters and reports
 - Meeting minutes will be added in the future

Charter

- CHPAC is asked by EPA to review, study, and discuss issues; and to develop and report comments on these issues to EPA
- Staffed by the EPA Office of Children's Health Protection
 - Peter Grevatt, Ph.D., Director of OCHP within the Office of the EPA Administrator
 - Martha Berger, Designated Federal Official for the CHPAC

Members

- 29 members from:
 - State government/tribes (6)
 - Academia (8)
 - Industry (4)
 - Environmental advocacy groups (4)
 - Pediatricians (7)
- 3 chairs in its 12-year history
- 6 year limit on participation

Members

1. Pamela Shubat, PhD, Chair, Minnesota Department of Health
2. Robert Amler, MD, Dean, School of Public Health, NY Medical College
3. Laura Anderko, RN PhD, Georgetown University
4. Tyra Bryant-Stephens, MD, Medical Director, Children's Hospital of Philadelphia
5. Gail Cynthia Christopher, W.K. Kellogg Foundation
6. Ed Clark, MD, Chair, School of Medicine, University of Utah
7. Nancy Clark, MA, CIH, CSP, New York City Department of Health and Mental Hygiene
8. Rochelle Davis, Founding Executive Director , Healthy Schools Campaign
9. Janice Dhonau. The Procter and Gamble Company
10. Maida Galvez, MD, MPH. Mt. Sinai School of Medicine
11. Janvier Gasana, MD, PhD, Stempel College of Public Health and Social Work, Florida International University
12. Peggy Nilsson Geimer, MD. ARCH Chemicals, Inc
13. LeRoy Graham, MD, FCCP. Morehouse School of Medicine
14. Dan Hryhorczuk, MD, MPH. School of Public Health, University of Illinois at Chicago
15. David Jacobs, PhD, CIH, Director of Research, National Center for Healthy Housing
16. Richard W. Janssen, Jr., Confederated Salish and Kootenai Tribes
17. Amy D. Kyle, PhD, MPH, School of Public Health, University of California Berkeley
18. Lynda Knobeloch, PhD, Bureau of Environmental and Occupational Health
19. Elise Miller, M. Ed, Director, Collaborative on Health and the Environment
20. Marie Lynn Miranda, PhD. Nicholas School of the Environment, Duke University
21. Curtis Munoz, Kiowa Tribe Environment Program
22. Nsedu Obot Witherspoon, MPH, Executive Director. Children's Environmental Health Network
23. Jonathon Patz, MD, MPH. University of Wisconsin-Madison
24. Jerome Paulson, MD, FAAP. School of Medicine and Health Sciences, George Washington University
25. Jennifer D. Roberts, DrPH, MPH. Exponent
26. Martha S. Sandy, PhD, MPH. California Environmental Protection Agency
27. Sheela Sathyanarayana, MD, MPH, Seattle Children's Hospital; University of Washington
28. Barbara Sattler, RN, DrPH, FAAN, University of Maryland School of Nursing
29. Anne Turner-Henson, RN, DSN, School of Nursing University of Alabama at Birmingham

Members, cont

- Current/Former CHPAC members on SAB standing Committees
 - Maida Galvez, Gary Ginsberg (Exp and Human Health)
- Current/Former CHPAC members on ad hoc committees
 - Henry Anderson, Lynda Knobeloch, John Balbus,
- Past Liaisons
 - Henry Anderson, Melanie Marty

Selection of Issues

- Subjects for review are suggested by EPA
 - Ideas come from EPA offices
 - Ideas come from Office of Children's Health Protection staff
- Subjects for review are suggested by CHPAC
 - Members discuss interests with the Designated Federal Official (Martha Berger), the chair, and other members
- EPA selects topics in consultation with CHPAC
 - EPA staff discuss potential projects with CHPAC steering committee (chair and task group chairs)

Work is completed....

- In plenary sessions (three times/year)
- Through “Task Groups” with an explicit charge developed by OCHP staff
 - Members of the task group selected from among the CHPAC members
 - Limit of three groups at one time
 - May be supplemented with non-CHPAC members
- Partnering
 - CHPAC members have served with other federal advisory committees on joint tasks

Recommendations made....

- Consensus letters written to the administrator
- Reports developed by Task Groups with a cover letter containing recommendations
- Verbal interaction with EPA staff during plenary sessions

History of Recommendations

- Overall: 73 letters to the EPA administrator (1998 to 2010)
- Early on, CHPAC posed questions to EPA
- Soon, members researched issues
- More recently, reports on audits of programs
- Strong history of comment on:
 - Risk assessment methods (cancer, exposure)
 - Regulations (lead, air, water standards)
 - EPA research agenda
 - Partnerships that would better inform science and carry out protective actions

Past Activities

- Sample of topics
 - Risk assessment methods (cancer, exposure)
 - Regulations (lead, air, water standards)
 - EPA research agenda and funded centers
 - Climate change
 - Children's health indicators
 - Schools environments
 - Farm worker children
- Specific substances
 - Lead, PBDE, mercury, perchlorate, ozone

Past Reports

CHPAC-BOSC Workgroup

Review of the Research Translation of the
EPA/NIEHS Children's Research Centers:
Accomplishments and Opportunities for the Future

Findings Document, July 2007



The Centers for Children's Environmental Health and Disease Prevention Research are jointly supported by the US Environmental Protection Agency and the National Institute of Environmental Health Sciences

Recently Completed Activities

- Input to EPA for the new federal interagency children's task force discussion
 - Asthma disparities
 - Chemical management
- School Siting Guidelines report to EPA
 - Developed model guidelines and recommended to EPA

Current Activities

- Task Group on Prenatal Issues
 - Critical period
 - Advice for physicians
- Task Group on Indoor Environments
 - Includes schools, day cares
 - Indoor air quality, other exposures
- Environmental Health Indicators
 - EPA ACE report 3

Future Interests

- Additional School Guidelines
 - Construction and operation guidelines
 - Members interested in issues from indoor environment to school nutrition programs
- Chemical management
 - Focus on early life risk assessment, VCCEP, ChAMP
 - Focus on consumer products for children
- Comment on risk assessment methods in NAS 'silver book'

Other Areas of Interest

- Asthma
 - Racial and economic disparities
- Nanoparticle risk assessment
 - Nanomaterials used in children's products
- Radiation health risks
 - Medical radiation
 - Radiofrequency radiation and children's use of wireless devices
- Endocrine disrupting chemicals
 - *in utero* and multigenerational effects of EDCs

Other Areas of Interest

- Gulf oil spill
 - Impact on health of clean-up workers and area residents
 - Assurances needed on health of pregnant women and children
- Children's health and climate change
- Air pollution
- Lead Standards
 - Lead paint
 - Lead in water in schools

Other Areas of Interest

- **Exposure Assessment Methods**
 - Children's exposures unique to child behavior
- **Dose-response Assessment Methods**
 - Low dose effect in early life such as mammary gland development (e.g., BPA low dose exposures)
- **Cancer Risk Assessment Guidelines**
 - Age dependent cancer potency
 - Mutagenic mode of action

Areas of Mutual Concern

- "Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens" (letter 2007)
 - 2004 SAB review (EPA-SAB-04-003):
 - "Certain groups of non-mutagenic carcinogens with known modes of action serve as important examples in support of applying a default factor to non-mutagenic carcinogens when the mode of action is unknown. (SAB suggests) apply a default approach to both mutagenic and to non-mutagenic chemicals for which mode of action remains unknown or insufficiently characterized."
 - Current EPA mutagenicity framework establishes a high bar to conclude mutagenic mode of action (MMOA)
 - Age dependent potency adjustments (ADAF) only used for MMOA carcinogens
 - SAB and CHPAC recommend default use of ADAF for protecting against early life exposure to carcinogens.

Areas of Mutual Concern

- Examine whether each EPA human health assessment that comes to the SAB adequately characterizes early life exposure and toxicity
 - Are standard set of childhood age groups used?
 - Are early life exposures adequately described?
 - Is early life dose-response considered?

Areas of Mutual Concern

- "Science and Decisions: Advancing Risk Assessment" NAS report of current interest due to upcoming EPA staff discussion on implementation
 - CHPAC interested in recommendations that affect assessing risks from early life exposures and risks to children's health

Members' Questions for SAB

- Does the EPA SAB interact with other federal agency science advisory groups?
- Does the SAB include pediatric health specialists and the perspective that such specialists bring?