



Children's Environmental Health Research



James H. Johnson, Jr., Ph.D.
Director

National Center for Environmental Research
July 8, 2015



Establishment of the EPA/NIEHS Children's Centers program

First national workshop on pediatric environmental health research – sponsored by NIEHS and the Children's Environmental Health Network (CEHN)

Food Quality Protection Act (FQPA) with 10x Safety Factor for pesticides

EPA forms the Office of Children's Health Protection (OCHP)

1993

1995

1996

1997

National Academy of Sciences publishes groundbreaking report, Pesticides in the Diets of Infants and Children

New EPA policy to include children's health in risk characterization announced by EPA Administrator Carol Browner

President Bill Clinton signs Executive Order 13045 to reduce health risks for children

EPA and NIEHS establish the Children's Environmental Health and Disease Prevention Research Centers program (CEHCs)



ORD Children's Health Research Roadmap

- Focus on research needed to enable and extend Agency's ability to take action
- Focus EPA research niche to maximize impact
- Identify gaps and priority needs for ORD research in CEH
- **Foster development of targeted and impactful coordination and collaboration with federal partners, and others to address Agency needs**

ACE – Air Climate Energy

CSS – Chemical Safety for Sustainability

HHRA – Human Health Risk Assessment

SHC – Sustainable and Healthy Communities

SSWR – Safe and Sustainable Water Resources





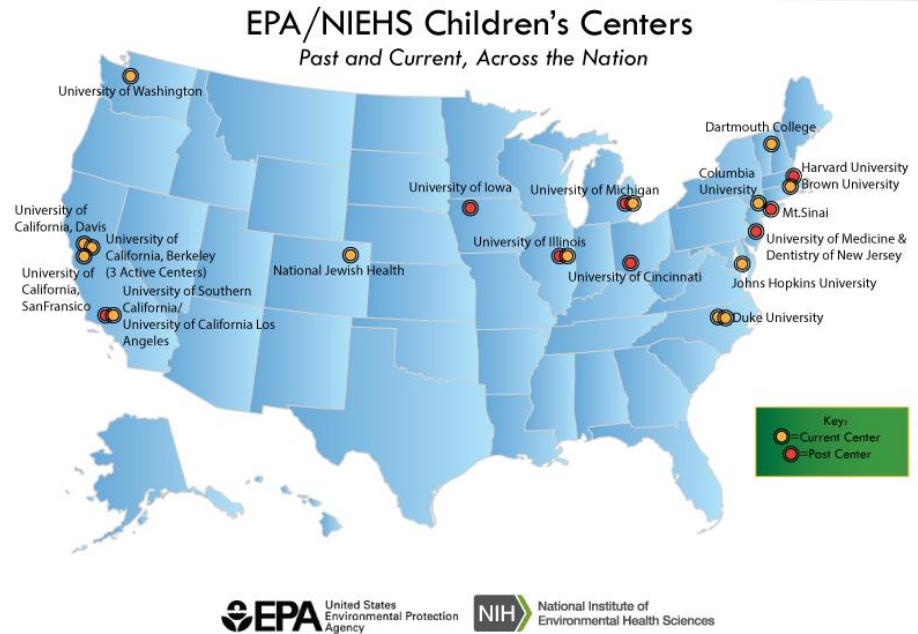
EPA/NIEHS Children's Centers Program

To date:

- Funded more than 20 Children's Centers
- More than 40 awards made
- Approximately \$150 million EPA funding since 1998, matched by NIEHS

Exposures and health outcomes studied include:

- Air pollutants, endocrine disrupting chemicals, flame retardants, pesticides and arsenic
- Asthma, autism, adverse birth outcomes, neurodevelopmental disorders and obesity.



Program Goals

- Better understand environmental factors affecting children's health
- Promote multidisciplinary interactions and community engagement
- Turn research into real-world treatments and interventions
- Establish a national network



Community Outreach and Translation Core



- Community engagement is required and integral to the EPA/NIEHS Children's Centers program
- Most Centers have a Community Outreach and Translation Core (COTC)
- Long-term cohort studies require outreach, communication with and trust from community members



Research Findings and Public Policy Impact examples



- EPA proposed updated and strengthened worker protection standard in 2014 for pesticides to protect agricultural workers and handlers and vulnerable groups including farmworker families.
- NYC rules mandating cleaner heating oil in commercial and apartment buildings as of July 2015, phasing out dirtiest heating oils by 2030.

Looking Forward





EPA/NIEHS Children's Centers: Protecting Children's Health for a Lifetime

The screenshot shows a web browser window with the URL www.epa.gov/ncer/childrenscnters/multimedia/index.html#2014webinars. The page displays a 2014 Webinar Series calendar with the following entries:

Webinar Series	Date	Speakers
Living Near a Diesel Blood Spot in Eastern LA: New Exposures in Children	January 8, 2014	Stephen Patterson, Catherine Mason
Journal and Maternal Tobacco Smoking and the Risk of Leukemia in the Offspring	January 12, 2014	Kim Harley, Antonia Calafat, Isaac Pasch, Maria Galcar
Passive and Active Tobacco Smoking and the Risk of Leukemia in the Offspring	March 12, 2014	Susan L. Schantz, Frederica Perera, Tracey J. Woodruff, Martha Sandy, Susan Buchanan
Passive and Active Tobacco Smoking and the Risk of Leukemia in the Offspring	April 9, 2014	Kari Nadeau, Rachel Miller, Carmen J. Marsit, Ivana Yang, Joseph L. Wienels
Passive and Active Tobacco Smoking and the Risk of Leukemia in the Offspring	May 14, 2014	Richard Fenske, Robert McConnell, Katharine Hammond, Elizabeth Noth, Gregory Diente
Passive and Active Tobacco Smoking and the Risk of Leukemia in the Offspring	June 11, 2014	Brenda Eskenazi, Lesham Kathryn Cottingham, Mich Urvashi Rangan
Passive and Active Tobacco Smoking and the Risk of Leukemia in the Offspring	July 9, 2014	Gail Christopher, Rosalind J. Wright
Passive and Active Tobacco Smoking and the Risk of Leukemia in the Offspring	August 25, 2014	Judy Van de Water, Susan J.

- Website

- www.epa.gov/ncer/childrenscnters/

- Webinar Series

- Second Wednesday each month at 1 PM

- Conference

- October 29-30, 2015 – The Grand Hyatt, Washington DC

2015 EPA/NIEHS Children's Centers Annual Meeting Protecting Children's Health for a Lifetime





THANK YOU!

James H. Johnson, Jr., Ph.D.

Director

National Center for Environmental Research

johnson.jim@epa.gov

703-347-8142