

CECBP Program Overview

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California Environmental Contaminant Biomonitoring Program
Scientific Guidance Panel Meeting
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Sacramento, California

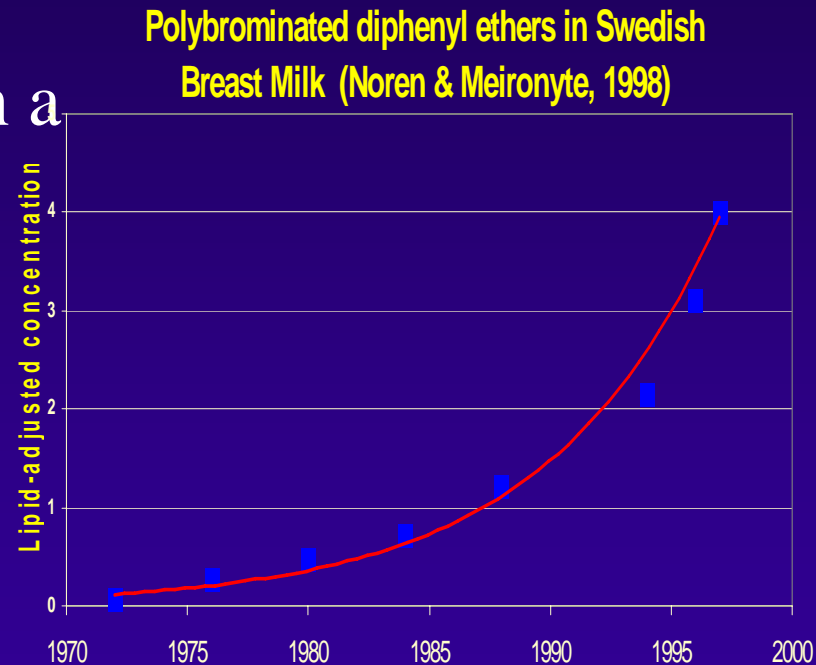
California Environmental Contaminant Biomonitoring Program (CECBP)

- Will systematically collect, analyze and archive blood and other human biological samples
- Will merge results of chemical analysis with participants' physiological measurements and questionnaire responses
- Participants will comprise a random sample of Californians (2,000 over 2-year cycles)
- Unlike national program, CECBP will have exposure as primary focus



CECBP findings will be used to:

- Determine baseline levels of environmental contaminants in a representative sample of Californians
- Establish temporal trends in contaminant levels
- Assess effectiveness of public health efforts and regulatory programs to reduce exposures of Californians to specific chemical contaminants



CECBP Basic Institutional Structure

- Close collaboration of three departments
 - California Department of Public Health (CDPH)
 - Office of Environmental Health Hazard Assessment (OEHHA)
 - Department of Toxic Substances Control (DTSC)
- Peer review by Scientific Guidance Panel
- Public participation and integration
- Consultation with CDC
- Coordinate with Environmental Health Tracking Program and Environmental Indicators Program

CECBP Organizational Components

Scientific Guidance Panel

CDPH

- Environmental Health Investigations Branch
- Environmental Health Laboratory Branch

DTSC

- Environmental Chemistry Laboratory

OEHHA

- Reproductive and Cancer Hazard Assessment Branch

CDPH – Program lead, sampling design*, questionnaire development*, field and clinic work, participant recruitment and enrollment, data management and analysis, results to participants upon request

DTSC, CDPH labs – Laboratory methods development, processing and analyzing biological samples, data analysis

OEHHA – Scientific Guidance Panel support, public outreach efforts, data analysis

**With input from OEHHA and DTSC*

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Stakeholder and Public Participation

Provide opportunities for meaningful public participation through stakeholder workshops and meetings, and develop materials that are understandable and sensitive to the diverse needs of Californians.

Guidance and Input from CDC

Scientific Guidance Panel

CDPH

- Environmental Health Investigations Branch
- Environmental Health Laboratory Branch

DTSC

- Environmental Chemistry Laboratory

OEHHA

- Reproductive and Cancer Hazard Assessment Branch

Centers for Disease Control and Prevention

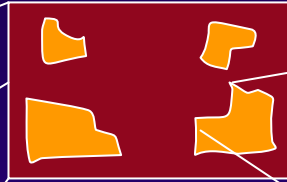
- Consultation and technical assistance – sampling strategy, data collection and management
- Methods transfer
- Training of state laboratory staff
- Quality assurance and quality control (QA/QC)

Overview of Sample Selection Stages

Stage 1 - counties



Stage 2 - segments



Stage 3 - homes



Stage 4 - study participants



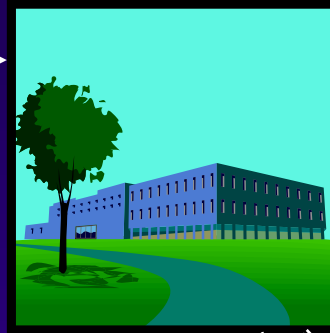
Possible Survey Process

Household interviews



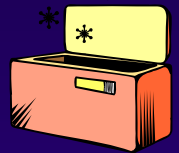
survey data

CECBP offices and labs

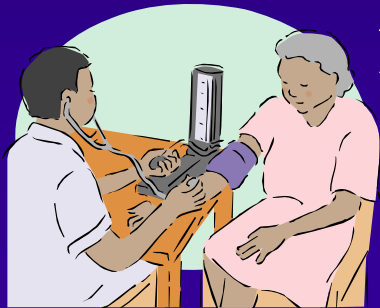


samples

Archive at CDPH



Field Clinic



physiological data & biological samples

test results

participants



analysis summary

research data

public



researchers



Provisional Timeline

- Early 2008 – Complete hiring of initial staff
- June 2008 – Purchase and install initial laboratory equipment; complete information technology feasibility study
- 2007-2010 – Lab methods and QA/QC development
- 2007-2010 – Field survey instruments and protocol development, field testing
- Late 2010 – Dress rehearsal to test all methods and procedures
- Late 2011 – Full program rollout, i.e., first year of two-year sampling cycle

Selected Issues in Implementation

- *Resources* - no funding provided in legislation
- *Analyte selection* – start with CDC list, but focus on California's needs
- *Program infrastructure* – CDC piggybacks on NHANES; nothing comparable yet in California
- *Targeted community studies* – contingent on funding
- *Communicating results to participants* – may be challenging for chemicals with little human toxicity data

CECBP Implementation

- An ambitious undertaking with many challenges
- Significant promise for environmental public health
- Major opportunities leveraging state-of-the-art research on exposure assessment