



# ECHO

## Environmental Influences on Child Health Outcomes

### The basics

NIH plans to support **multiple studies** using **existing cohorts** (groups of women & children who have already participated in other research studies) to answer questions about the effects of a broad range of **environmental factors on child health & development**. This approach will allow the NIH to combine data and maximize the use of this existing resource set to answer questions that could not be addressed by each study alone.

Environmental factors include physical, chemical, biological, behavioral, & social, etc.



The ECHO program will allow researchers to **maximize the use of existing resources** such as collections of biological tissues collected during pregnancy and delivery, **leverage available data sets** by funding additional analyses, **develop a repository** on the trajectory of health development, and develop statistical models to **predict disease development**, and **test new tools and approaches** for environmental and pediatric monitoring.

### What we hope to learn

### ECHO at its core

In addition to each investigators' specific research questions, all of the ECHO studies will be expected to collect standardized information (Core Elements) on:

- Demographics
- Typical health and development
- Genetic influences on child health and development
- Environmental factors
- Patient/person-reported outcomes (PROs)



The top priority focus areas for ECHO-funded studies are four pediatric health outcomes with high public health impact:

- Upper and lower airway
- Obesity
- Pre-, peri-, and postnatal outcomes
- Neurodevelopment

ECHO will also create an IDeA States Pediatric Clinical Trials Network leveraging existing IDeA infrastructure to address access gaps for rural children.

### ECHO's target areas



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