



ECHO's Five Areas of Child Health Research

ECHO Research investigates how a variety of factors—from society to biology—affect child health.



PRE-, PERI-, AND POSTNATAL

- How does the environment before, during, and after pregnancy and birth affect the health of both mother and baby?
- Examples of ECHO Research:
 - [Who is getting too little or too many vitamins and minerals during pregnancy?](#)
 - [How chemical exposures in pregnancy affect gene changes in the placenta](#)
 - [Site-level variation in the characteristics and care of infants with neonatal opioid withdrawal](#)



UPPER AND LOWER AIRWAYS

- How does a child's environment affect the way they breathe?
- Examples of ECHO Research:
 - [Which children develop asthma in the US](#)
 - [Location of wheezing gene linked to different wheezing patterns in young children](#)



OBESITY

- How does a child's environment affect their body weight and nutrition?
- Examples of ECHO Research:
 - [Children's body mass index: Does it vary by where children live and their individual characteristics?](#)
 - [A nationwide study on how childhood asthma relates to obesity development](#)



NEURODEVELOPMENT

- How does a child's environment affect how their brain develops?
- Examples of ECHO Research:
 - [Review of prenatal air pollution exposure and brain development](#)
 - [How a shortened version of a questionnaire performs in measuring behaviors related to autism and social communication](#)



POSITIVE HEALTH

- How does a child's environment affect their overall well-being?
- Examples of ECHO Research:
 - [The influence of sleep on children's well-being](#)
 - [General health and life satisfaction in children with chronic illness](#)



ECHO

Environmental influences
on Child Health Outcomes
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