Source: https://insideclimatenews.org/news/16062022/climate-change-health-new-england-journal-of-medicine/ New England Journal of Medicine / Paul Horn / Inside Climate News

Air Pollution and Children's Health

The New England Journal of Medicine has begun a new series exploring the public health impacts of climate change. On Thursday, the first in a series of articles explored a "growing concern" that pollution and climate change are adversely affecting children's health.

EXPOSURE PATHWAYS

Extreme
Heat
Air
Water
Food
Vector
Social distribution factors quantity
and safety
and ecology

SUSCEPTIBILITY FACTORS

Factors that increase exposure

- ▼ Longer exposures over lifetime
- ▼ More time spent outdoors
- ▼ Increased air and water intake
- ▼ Increased metabolism

Conditions that impair ability to adapt

- ▼Worsening nutrition and food scarcity
- ▼ Displacement in extreme weather conditions
- ▼Inadequate access to healthcare during development

Biological factors

- ▼ Developing organs
- ▼ Greater fluid and nutritional requirements
- ▼ Poor thermoregulation under extreme heat conditions
- ▼ More permeable skin and blood-brain barrier
- ▼ Less effective nasal filtration

FETUS, INFANT AND CHILD HEALTH EFFECTS

- Adverse pregnancy outcomes
- Allergic disease
- Cardiovascular disease
- Dermatologic disease
- Heat-related illness
- Immune disorders
- Infections

- Malnutrition and stunting
- Mental health conditions
- Metabolic and renal disease
- Neurodevelopmental impairments
- Respiratory disease
- Trauma



PAUL HORN / Inside Climate News