



**National Center for Environmental Health**

## **National Report on Human Exposure to Environmental Chemicals**

**<http://www.cdc.gov/nceh/dls/report/overview.htm>**

# **Public health uses of the Report**

The overall purpose of the Report is to provide unique exposure information to scientists, physicians, and health officials to help prevent disease that results from exposure to environmental chemicals.

**<http://www.cdc.gov/nceh/dls/report/overview.htm>**

# Public health uses of the Report

Specific uses of the Report are---

- To determine whether selected environmental chemicals are getting into the bodies of Americans and what levels of these chemicals are in blood and urine.
- For chemicals with a known toxicity level, to measure the prevalence of people in the population who have elevated levels of the environmental chemical (e.g., blood lead levels  $\geq 10$   $\mu\text{g}/\text{dL}$ ).

**<http://www.cdc.gov/nceh/dls/report/overview.htm>**

# Public health uses of the Report

Specific uses of the Report are---

- To assess the effectiveness of public health efforts to reduce the exposure of Americans to specific environmental chemicals (e.g., pesticides).
- To establish reference ranges that determine whether a person has an unusually high blood or urine level of an environmental chemical.
- To track, over time, trends in the levels of exposure of the U.S. population to environmental chemicals.

**<http://www.cdc.gov/nceh/dls/report/overview.htm>**

# **Public health uses of the Report**

Specific uses of the Report are---

- To determine whether levels of environmental chemicals are higher among minorities, children, people of low income, the elderly, women of childbearing age, or other population groups.
- To set priorities for research on the human health effects of environmental chemicals.

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# **Environmental chemicals listed in the Report**

Currently, the Report includes data for exposure of the general population to 27 environmental chemicals:

## **Metals**

lead	mercury	cadmium	cobalt
uranium	antimony	barium	beryllium
cesium	molybdenum		
platinum	thallium	tungsten	

## **Tobacco smoke**

cotinine (a metabolite of nicotine)

# Environmental chemicals listed in the Report

## Organophosphate pesticides

Urine metabolites of 28 pesticides, including chlorpyrifos, diazinon, fenthion, malathion, parathion, disulfoton, phosmet, phorate, temephos, and methyl parathion:

- dimethylphosphate
- dimethylthiophosphate
- dimethyldithiophosphate
- diethylphosphate
- diethylthiophosphate
- diethyldithiophosphate

# Environmental chemicals listed in the Report

## Phthalates

Urine metabolites of seven phthalates:

- mono-ethyl phthalate
- mono-butyl phthalate
- mono-2-ethylhexyl phthalate
- mono-n-octyl phthalate
- mono-isononyl phthalate
- mono-cyclohexyl phthalate
- mono-benzyl phthalate