National Center for Health Statistics
What We Do:

• Monitor the nation’s health by collecting, analyzing and disseminating health data

• Compare across time, populations, providers and geographic areas

• Identify health problems, risk factors, and disease patterns

• Inform actions and policies to improve the health of the American people
NCHS Data Systems Use These Sources ...

- Birth and death records
- Medical records in hospitals, nursing homes, emergency rooms, doctors’ offices
- Interviews with staff in hospice and home care agencies
- Physical examinations and laboratory testing in mobile exam centers
- Personal interviews in the home and via phone
Four Major Data Systems

• National Vital Statistics System and surveys

• National Health Interview Survey

• National Health and Nutrition Examination Survey

• National Health Care Surveys
National Vital Statistics System

- Birth and death records
  - National Vital Statistics System Cooperative Program—partnership with registration areas (State and Territories)
  - Information at the State and local level
Asthma mortality: Number of deaths due to asthma per 1,000,000 children 0–17 years of age, United States, 1980–2007

Preterm birth by first month of pregnancy, before, during, and after the Utah Valley steel mill closure

Source: Parker, Woodruff, Mendola, Epidemiology 2008
National Health Interview Survey

- **Data source**
  - Representative in person, in home survey of ~ 87,500 respondents from over 400 locations

- **Data applications**
  - Health status and disability
  - Health insurance and access to and use of health services
  - Extent of illness and disability
  - Health behavior

- **Record linkages to mortality, Medicare claims**

- **Geographic linkages to air quality**
Current asthma prevalence by selected characteristics, National Health Interview Survey, 2009

Total current asthma prevalence 8.2%

- Male: 7.0%, Female: 9.3%
- 0-17 years: 7.7%, 18 years and over: 9.6%
- White: 7.7%, Black: 7.8%, AIAN: 5.3%, Asian: 8.8%, NH white: 8.2%, NH black: 11.1%
- Total Hispanic: 6.3%, Puerto Rican: 4.9%, Mexican: 11.1%
- Below poverty: 7.3%, 100%-<200% poverty: 8.5%, 200% poverty and over: 11.6%
- Metropolitan: 8.1%, Nonmetropolitan: 8.7%
- Northeast: 7.5%, Midwest: 8.8%, South: 7.7%, West: 8.8%

Source: Akinbami, Moorman, and Liu, 2011, CDC/NCHS National Health Interview Survey
Association (odds ratios and 95% confidence intervals) between annual ozone (per 0.01 ppm) and respiratory allergy/hay fever among children

Source: Parker, Akinbami, Woodruff, EHP 2009. NHIS 1999-2005 linked with EPA air monitoring data
National Health and Nutrition Examination Survey

- **Data source**
  - Standardized physical examinations, laboratory tests, personal interviews with annual sample of 5,000

- **Data applications**
  - Disease or condition prevalence
  - Risk factors
  - Nutrition monitoring
  - Growth and development
  - Disease monitoring

- Record linkages to mortality, Medicare claims
- Geographic linkages to air quality, traffic
National Report on Human Exposure to Environmental Chemicals


The blood and urine samples were collected from participants in CDC’s National Health and Nutrition Examination Survey (NHANES), which obtains and releases health-related data from a nationally representative sample in two-year cycles.

The Updated Tables add more recent and new data to the Fourth Report, 2009. The Updated Tables are cumulative and include data reported in earlier updates. Therefore, the Updated Tables, February 2011 includes data that were reported in the previous Updated Tables, July 2010. The Updated Tables, February 2011 presents data from the 2005-2006 and 2007-2008 NHANES survey periods for 54 of the chemicals previously reported through 2004 in the Fourth Report, 2009, along with nine more recently added chemicals. The data are analyzed separately by age, sex, and racial/ethnic groups.

Updated Tables, February 2011

The Updated Tables do not update all chemicals in the Fourth Report and are therefore supplemental to the Fourth Report.

National Biomonitoring Program

The Program specializes in...
Contemporary Prenatal Exposure to Endocrine Disrupting Chemicals
Percentage of U.S. Pregnant Women with Detectable Level of Analyte

Go to the NCHS website for:

- Public use data files
- Publications
- Data access tools
- Information about the Research Data Center (RDC)
- Information about the Data Linkage program

Additional information:

http://www.cdc.gov/nchs/

JDParker@cdc.gov