

NVSS = National Vital Statistics System (called "Vital Statistics" in this document)
OTIS=Online Tuberculosis Information System
PRAMS = Pregnancy Risk Assessment Monitoring System
STATES = State Tobacco Activities Tracking and Evaluation System
STDSS= Sexually Transmitted Disease Surveillance System
WFRS = Water Fluoridation Reporting System
YRBSS = Youth Risk Behavior Surveillance System

CDC
CDC
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CDC

Community Health Status Indicators (CHSI)

<http://www.communityhealth.hhs.gov/homepage.aspx?i=1>

All indicators are at the county level

All indicators are available in the 2009 CHSI release.

Topic Area	Indicator text	Data Source
Preventive Services Use		
Infectious Diseases		
	AIDS (cases, expected)	CDC/HIVSS
	Haemophilus influenza B (cases, expected)	CDC/NNDSS
	Hep A (cases, expected)	CDC/NNDSS
	Hep B (cases, expected)	CDC/NNDSS
	Measles (cases, expected)	CDC/NNDSS
	Pertussis (cases, expected)	CDC/NNDSS
	Congenital rubella syndrome (cases, expected)	CDC/NNDSS
	Syphilis (cases, expected)	CDC/STDSS
	Tuberculosis (cases, expected)	CDC/OTIS
Adult Preventive Services Use (%)		
	Pap	CDC/BRFSS
	Mam	CDC/BRFSS
	Sigmoidoscopy	CDC/BRFSS
	Pneumonia vaccine	CDC/BRFSS
	Flu Vaccine	CDC/BRFSS
Relative Health Importance		
	Your health status comparison to peers	Computed variable
National Leading Cause of Death		
Under Age 1(white, black, other, Hispanic)		
	Complications of pregnancy/birth	CDC/Vital statistics
	Birth defects	CDC/Vital statistics
Ages 1-14 (white, black, other, Hispanic)		
	Injuries	CDC/Vital statistics
	Cancer	CDC/Vital statistics
	Homicide	CDC/Vital statistics
Ages 15-24 (white, black, other, Hispanic)		
	Injuries	CDC/Vital statistics
	Homicide	CDC/Vital statistics
	Cancer	CDC/Vital statistics
Ages 25-44 (white, black, other, Hispanic)		
	Injuries	CDC/Vital statistics
	Cancer	CDC/Vital statistics
	Suicide	CDC/Vital statistics
	Heart disease	CDC/Vital statistics
	HIV/AIDS	CDC/Vital statistics
	Homicide	CDC/Vital statistics
Ages 45-65 (white, black, other, Hispanic)		
	Cancer	CDC/Vital statistics
	Heart disease	CDC/Vital statistics
Ages 65+ (white, black, other, hispanic)		
		CDC/Vital statistics

Heart disease	CDC/Vital statistics
Cancer	CDC/Vital statistics

Measures of Birth and Death**Birth Measures**

Low birth weight (<2500 g)	CDC/Vital statistics
Very low birth weight (<1500 g)	CDC/Vital statistics
Premature births (<37 weeks)	CDC/Vital statistics
Births to women under 18	CDC/Vital statistics
Births to women over 40	CDC/Vital statistics
Births to unmarried women	CDC/Vital statistics
No prenatal care in first trimester	CDC/Vital statistics

Infant Mortality

Infant mortality	CDC/Vital statistics
White non-Hispanic infant mortality	CDC/Vital statistics
Black non-Hispanic infant mortality	CDC/Vital statistics
Hispanic infant mortality	CDC/Vital statistics
Neonatal infant mortality	CDC/Vital statistics
Post-neonatal infant mortality	CDC/Vital statistics

Death Measures

Breast cancer (female)	CDC/Vital statistics
Colon cancer	CDC/Vital statistics
Coronary heart disease	CDC/Vital statistics
Homicide	CDC/Vital statistics
Lung cancer	CDC/Vital statistics
Motor vehicle injuries	CDC/Vital statistics
Stroke	CDC/Vital statistics
Suicide	CDC/Vital statistics
Unintentional injury	CDC/Vital statistics

Summary Measures of Health**Life Expectancy**

Range among peer counties	computed by Chris Murray at U. Washington from Vital Statistics Data County-level LE is not available from NCHS
Median for all U.S. counties	

All Causes of Death

Range among peer counties	CDC/Vital statistics
Median for all U.S. counties	CDC/Vital statistics

Self-rated Health Status

Percent of adults who report fair to poor health	CDC/BRFSS
Range Among peer counties	CDC/BRFSS
Median for all U.S. counties	CDC/BRFSS

Average Number of Unhealthy Days in Past Month

Average number of unhealthy days reported in 30-day period	CDC/BRFSS
Range among peer counties	CDC/BRFSS
Median for all US counties	CDC/BRFSS

Vulnerable Populations

Have no high school diploma (among adults age 25 and older)	HRSA/ARF
Are unemployed	Dept of Labor/BLS
Are severely work disabled	Developed by Case Western Reserve Faculty from Census data
Have major depression	SAMHSA/NSDUH state estimates applied to counties
Are recent drug users (within past month)	SAMHSA/NSDUH state estimates applied to counties

Environmental Health

Infectious Diseases

E.Coli (reported, expected)	CDC/NNDS
Salmonella (reported, expected)	CDC/NNDS
Shigella (reported, expected)	CDC/NNDS

Toxic Chemicals Released Annually

National Air Quality Standards

Carbon monoxide	EPA/TRI
Nitrogen dioxide	EPA/TRI
Sulfur dioxide	EPA/TRI
Ozone	EPA/TRI
Particulate matter	EPA/TRI
Lead	EPA/TRI

Risk Factors and Premature Death

No exercise	CDC/BRFSS
Few fruits/vegetables	CDC/BRFSS
Obesity	CDC/BRFSS
High blood pressure	CDC/BRFSS
Smoker	CDC/BRFSS
Diabetes	CDC/BRFSS

Access to Care

Uninsured individuals in the county (2000)	Census/SAHIE
Medicare beneficiaries	
Elderly (age 65+)	CMS/Medicare Administrative Data
Disabled	CMS/Medicare Administrative Data
Medicaid beneficiaries	No data available
Primary care physicians per 100,000 population	HRSA/ARF
Dentists per 100,000 population	HRSA/ARF
Community/Migrant Health Centers	HRSA. Geospatial Data Warehouse,
Health Professional Shortage Area	HRSA

Healthy People 2020 (selected examples)

<http://www.healthypeople.gov/hp2020/Objectives/files/Draft2009Objectives.pdf>

List includes sample indicators for 26 of the 38 HP2020 topic areas.

All indicators will be available at the national level. Selected indicators will be available at the state and county levels.

Topic Area	Sample Indicators	Data Source
Access to Health Services	Proportion of persons with health insurance	CDC/NHIS
	Proportion of persons that experience difficulties or delays in obtaining necessary medical care, dental care, or prescription medicine	AHRQ/MEPS
Adolescent Health	Percentage of adolescents who participate in extracurricular and out-of school activities	SAMHSA/NSDUH
Arthritis, Osteoporosis, and Chronic Back Conditions	Proportion of adults with doctor-diagnosed arthritis who experience a limitation of activity due to arthritis or joint symptoms	CDC/NHIS
Blood Disorders and Blood Safety	Hospitalization for sickle cell disease among children age 9 years and under	CDC/NHDS
Cancer	Lung cancer death rate	CDC/Vital statistics
	Breast cancer death rate	
	Proportion of women aged 18 years and older who receive a cervical cancer screening based on the most recent guidelines	CDC/NHIS
Chronic Kidney Disease	Rate of new cases of end-stage renal disease (ESRD)	NIH/US Renal Data System
Diabetes	Percentage of the US population with chronic kidney disease	CDC/NHANES
	Proportion of adults with diabetes whose condition has been diagnosed	CDC/NHANES
Disability and Secondary Conditions	Rate of lower extremity amputations in persons with diabetes	CDC/NHDS;NHIS
	Disparities in employment rates between working age adults with and without disabilities	Census/CPS
Early and Middle Childhood Environmental Health	Proportion of adults with disabilities reporting satisfaction with life	CDC/BRFSS
	Percentage of children who have poor quality of sleep	HRSA/NSCH
Family Planning	Proportion of persons served by community water systems who receive a supply of drinking water that meets the regulation of the Safe Drinking Water Act	EPA/PWSS; SDWSS
	Proportion of pregnancies that are intended	CDC/NSFG; CDC/Vital statistics; Abortion Provider Survey (Guttmacher Institute), CDC/Abortion Surveillance Data
Food Safety	Proportion of pregnancies conceived within 18 months of a previous birth	CDC/NSFG
	Infections caused by key pathogens commonly transmitted through food	CDC/Foodborne Disease Active Surveillance Network
Healthcare-Associated Infections	Central line-associated bloodstream infections	CDC/National Healthcare Safety Network
	Incidence of invasive methicillin-resistant staphylococcus aureus (MRSA) infections	CDC/Emerging Infections Program Network Active Bacterial Core surveillance
Heart Disease and Stroke	Proportion of adults with high blood pressure whose blood pressure is under control	CDC/NHANES
HIV	Proportion of adults who have had their cholesterol checked within the preceding five years	CDC/NHIS
	Number of new cases of HIV/AIDS among adults and adolescents	CDC/HIVSS
Immunization and Infectious Diseases	Proportion of sexually active persons who use condoms	CDC/NSFG
	Proportion of adults who are vaccinated annually against influenza and ever vaccinated against pneumococcal disease	CDC/NHIS
	Proportion of children aged 19 to 35 months who receive the recommended vaccines	CDC/NIS

Injury and Violence Prevention	Motor-vehicle crash related deaths per 100,000 population	DOT, NHTSA/General Estimates System
Maternal, Infant, and Child Health	Traumatic brain injury morbidity and mortality	CDC/Vital statistics; NHDS; NHAMCS
	Proportion of pregnant women who receive early and adequate prenatal care	CDC/NCHS/Vital statistics
Mental Health and Mental Disorders	Proportion of mothers who breastfeed their babies	CDC/NIS
	Preterm births	CDC/NCHS/Vital statistics
	Rate of suicide attempts by adolescents	CDC/YRBSS
Nutrition and Weight Status	Percentage of primary care physician office visits that screen adults aged 19 years and older for depression	CDC/NAMCS
	Percentage of primary care physician office visits that screen youth aged 12 to 18 years for depression	CDC/NAMCS
Older Adults	Proportion of adults who are at a healthy weight	CDC/NHANES
Oral Health	Proportion of children and adolescents who are overweight or obese	CDC/NHANES
	Rate of pressure ulcer-related hospitalizations among adults	AHRQ/HCUP
	Proportion of the US population served by community water systems with optimally fluoridated water	CDC/Fluoridation Census
Physical Activity and Fitness	Proportion of low-income children and adolescents who received any preventive dental service in the past year	AHRQ/MEPS
	Proportion of the Nation's public and private schools that require daily physical education for all students	CDC/School Health Policies and Programs Study
Respiratory Diseases	Proportion of adults who engage in no leisure time physical activity	CDC/NHIS
	Hospitalizations for asthma	CDC/NHDS
Sexually Transmitted Diseases	Deaths from chronic obstructive pulmonary disease among adults	CDC/NCHS/Vital statistics
	Proportion of adolescents and young adults with chlamydia trachomatis infections	CDC/STDSS
Substance Abuse	Proportion of females with human papilloma virus (HPV infection)	CDC/NHANES
	Proportion of adolescents who report that they rode, during the previous 30 days, with a driver who had been drinking alcohol	CDC/YRBSS
	Proportion of adults who drank excessively in the previous 30 days	SAMHSA/NSDUH
	Initiation of tobacco use among children, adolescents, and young adults	SAMHSA/NSDUH

County Health Rankings, Mobilizing Action Toward Community Health (MATCH)

<http://www.countyhealthrankings.org/health-factors>

All indicators are at the county level

Topic area	Indicator text	Data Source
Mortality	Age-adjusted YPLL (Years of Potential Life Lost) rate per 100,000	CDC/Vital statistics
	Percent of adults that report fair or poor health	CDC/BRFSS
	Average number of reported mentally unhealthy days per month	CDC/BRFSS
	Self-reported poor mental health days	CDC/BRFSS
	Percentage of live births for which the infant weighed less than 2,500 grams	CDC/Vital statistics
Health behaviors	Percent of adults that reported currently smoking	CDC/BRFSS
	Percent of adults that report BMI = 30	CDC/BRFSS
	Chlamydia incidence rate per 100,000	CDC/STDSS
	Number of births per 1,000 female population, ages 15-19.	CDC/Vital statistics
	Percent of adults that report binge drinking	CDC/BRFSS
	Crude motor-vehicle related mortality rate per 100,000 population	CDC/Vital statistics
Clinical care	Percent of the adult population under age 65 that has no health insurance coverage	CDC/BRFSS
	Primary care provider rate per 100,000 population	HRSA/ARF
	Discharge rate for ambulatory care-sensitive conditions per 1,000 Medicare enrollees	Dartmouth Atlas/Medicare Administrative Data
	Percent of diabetic Medicare patients whose blood sugar control was screened in the past year using a test of their glycated hemoglobin (HbA1c) levels	Dartmouth Atlas/Medicare Administrative Data
	Percent of chronically ill Medicare patients who enrolled in hospice care in the last six months of life	Dartmouth Atlas/Medicare Administrative Data
Social and Economic Factors	Percent of a county's ninth-grade cohort in public schools that graduates from high school in four years	Dept of ED/NCES
	Percent of the population age 25 and older with a four-year college degree or higher	Census/ACS
Social and Economic Factors	Percent of the civilian labor force, age 16 and older, that is unemployed but seeking work	Dept of Labor/BLS/LAUS
	Percent of children under age 18 living below the Federal Poverty Line (FPL).	Census/CPS/SAIPE
	Gini coefficient of income inequality	Census/ACS
	Percent of the adult population that responds that they "never," "rarely," or "sometimes" get the support they need.	CDC/BRFSS
	Percent of all households run by a single parent (male or female householder with no spouse present) with one or more of their own children (< age 18) living at home	Census/ACS
	Annual rate of violent crime per 100,000 population, including homicide, forcible rape, robbery, and aggravated assault	Dept of Justice/FBI/Uniform Crime Reporting System
Physical environment	Annual number of days that air quality was unhealthy for sensitive populations due to fine particulate matter (FPM, < 2.5 µm in diameter)	CDC/EPA collaboration
	Number of days that air quality was unhealthy for sensitive populations due to ozone levels.	CDC/EPA collaboration
	Percent of zip codes in a county with a healthy food outlet, defined as a grocery store or produce	County Business Patterns data
	Number of liquor stores per 10,000 population	Census /County Business Patterns data

State of the USA

State of the USA Health Indicators: Letter Report (2008) <http://www.nap.edu/catalog/12534.html>

Most indicators are at the national level. Some indicators are at the state level. There are no county level indicators in the 2010 release, but some may be included in the future when data permit.

Broad area	Indicator text	Data source	Level of Geography Possible		
			National	State	County
Mortality	Number of years that a newborn is expected to live if current mortality rates continue to apply	CDC/Vital statistics	x		
	Deaths of infants aged under 1 year per 1,000 live births	CDC/Vital statistics	x	x	x
	Number of years of life remaining to a person at age 65 if current mortality rates continue to apply	CDC/Vital statistics	x	x	x
	Age-adjusted mortality rates due to intentional and unintentional injuries	CDC/Vital statistics	x	x	x
Health-related quality of life (morbidity)	Percentage of adults reporting fair or poor health	CDC/NHIS, BRFSS;	x (NHIS)	x (BRFSS)	x (BRFS)
	Mean number of physically or mentally unhealthy days in the past 30 days	SAMHSA/NSDUH; CDC/BRFSS	x	x	x
Condition-specific outcomes	Percentage of adults reporting one or more of six chronic diseases (diabetes, cardiovascular disease, chronic obstructive pulmonary disease [chronic bronchitis and emphysema], asthma, cancer, and arthritis)	CDC/NHIS	x		
	Percentage of adults with serious psychological distress, as indicated by a score of \geq 13 on the K6 scale.	SAMHSA/NSDUH	x	x	
Health-related behaviors	Percentage of adults who have smoked \geq 100 cigarettes in their lifetime and who currently smoke some days or every day	CDC/NHIS	x	x (BRFSS)	x (BRFSS)
	Percentage of adults meeting the recommendation for moderate physical activity (at least 5 days a week for 30 minutes a day of moderate-intensity activity or at least 3 days a week for 20 minutes a day of vigorous-intensity activity)	CDC/NHIS	x		
	Percentage of adults consuming four (women) or five (men) or more drinks on one occasion and /or consuming more than an average of one (women) or two (men) drinks per day during the past 30 days	CDC/NHIS/BRFSS	x	x (BRFSS)	x (BRFSS)
	Percentage of adults with a good diet (conformance to federal dietary guidance) as indicated by a score of \geq 80 on the Healthy Eating Index	CDC/NHANES; Dept of Agr	x		
	Percentage of adults reporting a body mass index of \geq 30	CDC/NHIS/BRFSS	x (NHANES;NHIS)	x(BRFSS)	x (BRFSS)
	Proportion of youth in grades 9-12 who are sexually active and do not use condoms, placing them at risk for sexually transmitted infections	SAMHSA/NSDUH	x	x	
Health systems: Cost	Per capita health care spending	AHRQ/MEPS	x		
Health systems: Access	Percentage of adults without health coverage via insurance or entitlement	Census/CPS	x	x	
	Percentage of (non-institutionalized) people who did not receive or delayed receiving needed medical services, dental services, or prescription drugs during the previous year	AHRA/MEPS	x		
Health systems: Effectiveness of care	Percentage of adults who are up-to-date with age-appropriate screening services and flu vaccination	AHRQ/MEPS	x		
	Percentage of children aged 19-35 months who are up-to-date with recommended immunizations	CDC/NIS	X	x	x (some large areas)
	Hospitalization rate for ambulatory-care-sensitive conditions	AHRQ/MEPS	x		

Medicare data

Indicators which could potentially be derived from Medicare data and which are either not currently publicly available or not available at the community level

Potential Cost and utilization indicators

Total Medicare payments per capita and per capita payments for select settings or services, such as inpatient hospital care, post-acute care, home health, or various physician services. (Payments could be standardized and risk-adjusted)

Per user statistics for the same

Utilization variables, such as readmissions for specific conditions, overall readmissions, emergency department visits

Disease burden

Relative Hierarchical Condition Category (HCC) scores. These take into consideration, for each region, the burden of illness, the percentage of beneficiaries that are “duals” (also eligible for Medicaid), and age and sex. Percent of beneficiaries with different conditions, such as chronic obstructive pulmonary disease, congestive heart failure, or diabetes

Quality indicators - drawn from potentially 68 measures taken from:

Hospital COMPARE (25 process measures and 6 outcomes measures)

Patient Safety Indicators developed by AHRQ (13 measures)

Generating Medicare Quality Performance Measurements Results (GEM) (12 measures)

Prevention Quality Indicators developed by AHRQ (12 measures)