Community Health Status Indicators Project

National Center for Environmental Health Environmental Health Tracking Branch

Marilyn Metzler
National Center for Chronic Disease Prevention and Health Promotion
Division of Adult & Community Health
July 24, 2006



Indicators Landscape

- Brief history of indicators in US, globally
- Key National Indicators Project
- US community indicator projects
- Community Indicators Consortium
- Community Health Status Indicators Project

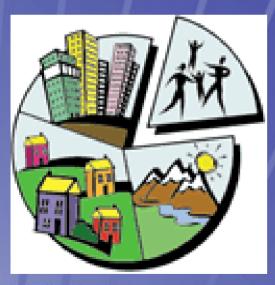


Community Health Status Indicators Project (CHSI)

Goal: To develop a resource for monitoring and analyzing community health status at the county level.



Community Health Status Indicators Project



- County-level profiles to monitor & address community health
- Easy to understand reports for all 3000+ U.S. counties
- Convey a breadth of community and public health issues
- HP 2010 objectives
- Peer counties



CHSI Background

Pilot started by HRSA 1998

 Mailed and web-based PDF files for all 3082 US counties

20,000 monthly visits to website

Website d/c in 2000



CHSI II Partnership

- CDC NCCD, NCHS
- HRSA
- National Library of Medicine
- ATSDR
- Public Health Foundation
- Johns Hopkins University
- Brookings Institute
- NACCHO, ASTHO, others



CHSI II

- Update existing indicators, add a few new ones
- Develop GIS component
- Document history of partnerships, challenges, feedback
- Re-debut September 2007 Preventing Chronic Diseases (CDC e-journal)
- Lay groundwork for CHSI III, sustainability



Current Domains

- Health
- Medical
- Behavioral
- HRQOL, SRH
- Environment
- Employment
- Education
- Housing
- Economic

Community Health Status Report

Fulton County Georgia

JULY 2000











Providing information for improving community health

Please refer to the CHSI companion document, "Community Health Status Report: Data Sources, Definitions, and Notes" for all sources, methods, and calculations.

www.communityhealth.hrsa.gov



PUBLIC HEALTH IN AMERICA

VISION

Healthy People in Healthy Communities

MISSION

Promote Physical and Mental Health and Prevent Disease. Injury, and Disability

PUBLIC HEALTH

- Prevents epidemics and the spread of disease
- Protects against environmental hazards
- Prevents injuries
- Promotes and encourages healthy behaviors
- Responds to disasters and assists communities in recovery
- Assures the quality and accessibility of health services

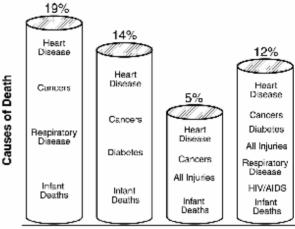
ESSENTIAL PUBLIC HEALTH SERVICES

- Monitor health status to identify community health problems
- · Diagnose and investigate health problems and health hazards in the community
- Inform, educate, and empower people about health issues
- Mobilize community partnerships to identify and solve health problems
- · Develop policies and plans that support individual and community health efforts
- · Enforce laws and regulations that protect health and ensure safety
- Link people to needed personal health services and assure the provision of health care when otherwise unavailable
- Assure a competent public health and personal health care workforce
- · Evaluate effectiveness, accessibility, and quality of personal and population-based health services
- Research for new insights and innovative solutions to health problems

Source: Public Health Functions Steering Committee, Fall 1994.

WHAT'S REALLY KILLING US?

Half of all deaths can be attributed to these factors



Tobacco Use Diet/Activity Alcohol Use Other*

Determinants of Health

 Other lifestyle and personal behavior (nongenetic) risk factors include microbes, toxins, firearms, sexual behavior, motor vehicles, and drug use. Source: McGinnis, J.M., & Foege, WH. (1993). Actual causes of death in the United States. JAMA., 270(18), 2207-2212.

> While we may measure deaths due to heart disease, cancers, or infant deaths, we should always keep in mind that factors such as tobacco, diet, activity, and alcohol use substantially contribute to these deaths. For example, as shown in the above graphic, tobacco use accounts for 19 percent of all U.S. deaths.

FIPS Cope: 13 - 121



DEMOGRAPHIC INFORMATION

Fulton County, GA

Population size: 722.540 Population density (people per square mile): 1.386 Individuals living below poverty level: 20.9%

Age distribution

Under Age 18: 24.2% Aae 65-84: 8.4% 1.2% Age 85+:

Nonwhite population

Black: 54.1% American Indian: 0.2% Asian/Pacific Islander: 1.9% Hispanic origin: 3.1%

PEER COUNTIES

These peer counties (counties and county-like geographic areas) were grouped on the basis of frontier status, population size and poverty. There are 39 counties like Fulton County, GA. (See the next panel.) Below is the range of values represented by the peer areas.

Population size: 504.591 - 944.472 Population density (people per square mile): 77 - 15,581 Individuals living below poverty level: 10.9 - 42.2 %

Age distribution

Under Age 18: 17.1 - 36.1% Age 65-84: 6.6 - 22.7% Age 85+: 0.8 - 4.0%

Nonwhite population

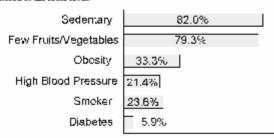
Black: 0.3 - 65.4% American Indian: 0.1 - 4.9%Asian/Pacific Islander: 0.4 - 35.4% Hispanic origin: 0.6 - 87.8%

Source: U.S. Census Burezu, 1997. These population figures are used for calculations throughout brochure, when appropriate.

RISK FACTORS FOR PREMATURE DEATH

Georgia

Communities may wish to obtain information about these measures, collected and monitored at the local level.



Prevalence estimates are from the Behavioral Risk Factor Surveillance System (BRFSS), (High Blood Pressure) 1997, (all others) 1998. For local estimates, contact your State BRFSS office.

ACCESS TO CARE

Fulton County, GA

In addition to use of services, access to care may be characterized by medical care coverage and service availability.

Uninsured individuals in the State (1998)1:	1,341,000
Medicare beneficiaries (1998)2:	
Elderly (Age 65+):	66,550
Disabled:	12 100

Medicaid beneficiaries: The number of beneficiaries for each county is not available nationally, but may be obtained from your State.

Primary care physicians per 100,000 pop. (1998)3:	210.8
Dentists per 100,000 pop. (1998) ³ :	79.4
Community/Migrant Health Centers (1999)3:	Yes
Health Professional Shortage Area (12/17/99)3:	No

- Estimate of uninsured individuals in the State was obtained from the U.S. Census Bureau. Current Population Survey, 1998.
- Health Care Financing Administration.
- Area Resource File, Health Resources and Services Administration.

FIPS Cope: 13 - 121

PREVENTIVE SERVICES USE

INFECTIOUS DISEASE CASES

Fulton County, GA

These diseases respond to public health control efforts. The expected number (in parentheses) is based on the occurrence of cases among peer counties.

		Cases	Expected
	AIDS	rna	rna
	Haemophilus influenzae B	nnn	nnn
٥,	Hepatitis A	720	(347)
٠	Hepatitis B	17	(144)
٠	Measles	0	(1)
٠	Pertussis	12	(64)
٠	Congenital Rubella Syndrome	0	(0)
	Syphilis	rna	rna
	Tuberculosis	rna	rna

Indicates a status favorable to peers.

Indicates a status loss than favorable

FIG. The release of data for all counties has not been authorized.

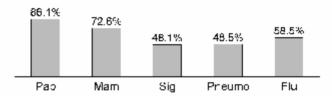
nnn This was not a nationally notifiable condition for the entire time period.

Source: Centers for Disease Control and Prevention 1996-1998.

CHILD PREVENTIVE SERVICES USE

Indicators such as immunizations, dental caries, and the prevalence of lead screening are not collected at the national level and must be obtained locally.

ADULT PREVENTIVE SERVICES USE (%) Georgia



Source: Behavioral Risk Factor Surveillance System.

Pap smears among women 18+, past three years, (1998). Manusography screening among women 50+, past 2 years, (1998). Sigmoidoscopy screening among adults 50+, past five years, (1997).

Pneumonia vaccine among adults 65+, ever, (1998).

Flu vaccine among adults 65 and older, past year, (1997).

PEER COUNTIES

Jefferson County, AL Pima County, AZ Fresno County, CA Kem County, CA San Francisco County, CA San Joaquin County, CA The District of Columbia Duval County, FL Hillsborough County. FL Orange County, FL Pinellas County, FL DeKalb County, GA Fulton County, GA Marion County, IN Jefferson County, KY Baltimore City MD Suffolk County, MA Jackson County, MO Camden County, NJ Essex County, NJ

Hudson County, NJ Bernalillo County, NM Erie County, NY Monroe County, NY Mecklenburg County, NC Hamilton County, OH Montgomery County, OH Summit County, OH Oklahoma County, OK Tulsa County, OK Multnomah County, OR Providence County, RI Davidson County, TN Shelby County, TN El Paso County, TX Hidalgo County, TX Travis County, TX Pierce County, WA Milwaukee County, WI



Healthy People 2010 Vision: Healthy People in Healthy Communities

SUMMARY MEASURES OF HEALTH

Healthy People 2010 Goal: Increase quality and years of healthy life

Fulton County, GA

AVERAGE LIFE EXPECTANCY (1990)1

71.0 years

Range among peer counties2 (71.1 - 76.5)

Median for all U.S. counties [75.4]

ALL CAUSES OF DEATH (1993-97)3

1,086.7 deaths/100,000 population (Age-adjusted to year 2000 standard)

Range among peer counties2 (843.3 - 1,086.7)

Median for all U.S. counties [923.2]

SELF-RATED HEALTH STATUS (1993-97)4

8.2 % (Percent of adults who report fair or poor health)

Range among peer counties2 (10.7-17.9%)

Median for all U.S. counties [14.7%]

AVERAGE NUMBER OF UNHEALTHY DAYS IN PAST MONTH (1993-97)4

3.6 days (Average number of unhealthy days reported in a 30-day period)

- Range among peer counties2 (3.7-6.2)
- Median for all U.S. counties [5.1]
- Indicates a status favorable to peers.
- Indicates a status less than favorable.

A blank indicates that no comparison was made.

nif No report, fewer than 10 deaths reported during the 5-year time period or fewer than 50 respondents to the survey.

- Developed by Harvard University for the Health Resources and Services Administration's Bureau of Primary Health Care.
- Eighty percent of the peer group values fall within this range.
- National Center for Health Statistics.
- Behavioral Risk Factor Survey; local estimates were developed by Centers for Disease Control and Prevention and are constructed from State-level data.

VULNERABLE POPULATIONS

Fulton County, GA

Vulnerable populations may face unique health risks and barriers to care, requiring enhanced services and targeted strategies for outreach and case management.

Vulnerable populations include:



People with no high school diploma ¹	
(among adults age 25 and older):	104,080
Unemployed individuals (1998):	16,220
People who are severely work disabled1:	18,980
Those suffering from major depression1:	32,680
Recent drug users1 (within past month):	35,000

ENVIRONMENTAL HEALTH

Fulton County, GA

Infectious diseases2 (1996-1998):

	Cases	Reported	Expected
٠	E. coli	14	(16)
•	Salmonella	330	(355)
Q	Shigella	350	(313)

Toxic chemicals released annually3 (EPA, 1996); 1,956,947 pounds

National air quality standards met by county3 (1998):

Carbon Monoxide				Particulate Matter	Lead
Yes	Yes	Yes	No	Yes	Yes

- Indicates a status favorable to peers.
- Indicates a status less than favorable.

NNN This was not a nationally notifiable condition for the entire time period.

- The most current estimates of prevalence, obtained from various sources, (see the companion document for details), were applied to 1997 county population figures.
- Prevention of these diseases is linked to having clean water, and proper hygiene and food handling. The expected number (in parentheses) is based on the occurrence of cases among peer counties. Source: Centers for Disease Control and Prevention.
- Environmental Protection Agency (Toxic Chemical Release Inventory, AIRSData).

FIPS Cope: 13 - 121

RELATIVE HEALTH IMPORTANCE

Fulton County, GA

Your Health Status Compared to Peers Unfavorable Favorable

Your County's Health Status Compared to the U.S. Rate

No Care in First Trimester. Low Birth Wt. (<2500 g), Very Low Birth Wt. (<1500 g), Black Infant Mortality, Colon. Premature Births (<37 weeks). Older Mothers, 40+, Unmarried Mothers, Infant Mortality, Neonatal Infant Mortality, Postneonatal Infant Mortality. Breast Cancer (Female). Homicide, Motor Vehicle Injuries, Stroke, Suicide

Teen Mothers, <18. Unintentional Injury

White Infant Mortality. Coronary Heart Disease, Lung Cancer

The Relative Health Importance table creates four categories of relative concern by simply comparing a county to its peers and to the U.S.

A county's indicators in the upper left-hand box () are higher than the U.S. and its peers and may warrant more attention. Conversely, indicators in the lower right-hand box (*) of the table compare favorably to both peers and the U.S. The other boxes represent intermediate levels of health where a county's rate is higher than either its peers or the U.S., but not both.

Source: Death Rates and Birth Measures Tables from pages 6-7.

Methodology: Studnicki, J. et al. (1997). Community health report card: Comprehensive Assessment for Tracking Community Health (CATCH), Best Practices and Benchmarking in Healthcare, Vol 2(5), 196-207.

NATIONAL LEADING CAUSES OF DEATH

Healthy People 2010 Goal: Eliminate Health Disparities

Fulton County, GA

	White	Black	Other	Hispanic
Under Age 1				
Complications of				
Pregnancy/Birth	15%	13%	nrf	nrf
Birth Defects	27%	12%	nrf	nrf
Ages 1-14				
Injuries	53%	38%	nrf	nrf
Cancer	nrf	nrf	nrf	nrf
Homicide	nrf	nrf	nrf	nrf
Ages 15-24				
Injuries	56%	17%	nrf	nrf
Homicide	14%	48%	nrf	nrf
Cancer	nrf	nrf	nrf	nrf
Ages 25-44				
Injuries	14%	nrf	nrf	28%
Cancer	12%	nrf	nrf	nrf
Suicide	nrf	nrf	nrf	nrf
Heart Disease	nrf	nrf	nrf	nrf
HIV/AIDS	34%	36%	nrf	19%
Homicide	nrf	11%	nrf	26%
Ages 45-65				
Cancer	33%	25%	36%	nrf
Heart Disease	22%	24%	23%	nrf
Ages 65+				
Heart Disease	34%	32%	33%	29%
Cancer	21%	21%	23%	27%

Diff. No report, fewer than 20 deaths in the race/ethnicity and age group or less than 10% of the deaths.

Local data are presented for the Nation's top leading causes of death in each age group. Columns, within age categories, do not total 100% because all causes of death are not listed.

The most complete ethnicity data available are reported.

Source: National Center for Health Statistics, Vital Statistics Reporting System, 1995-1997.

FIPS Cope: 13 - 121

MEASURES OF BIRTH AND DEATH

Fulton County, GA

	County Peer County Percent Range ¹		Birth Measures		U.S. Percent 1997	Healthy People 2010 Target
9.8	ρ	6.4-10.8	Low Birth Wt. (<2500 g)		7.5	5.0
2.0	٥	1.1-2.4	Very Low Birth Wt. (<1500 g)		1.4	0.9
12.9	٥	9.8-15.6	Premature Births (<37 weeks)		11.4	7.6
7.3	٥	4.4-7.8	Teen Mothers, <18		12.7	No objective
2.3	٥	1.4-2.6	Older Mothers, 40+		2.1	No objective
45.5	٥	29.7- 48.3	Unmarried Mothers		32.4	No objective
17.2		12.9-35.1	No Care in First Trimester	·	17.0	10.0

Count Rate		Peer County Range ¹	Infant Mortality²		U.S. Rate 1997	Healthy People 2010 Target
10.4	٩	5.4-11.3	Infant Mortality		7.2	4.5
5.5	•	5.0-7.8	White Infant Mortality		6.0	4.5
14.6	•	9.6-18.8	Black Infant Mortality		13.7	4.5
6.3	٥	3.3- 7.9	Neonatal Infant Mortality	·	4.8	2.9
4.1	δ	1.7-4.1	Post-neonatal Infant Mortality		2.5	1.5

	County Peer County Rate Range ¹						Healthy People 2010 Target
36.0	ρ	24.0-36.6	Breast Cancer (Female)	28.6	22.2		
22.3	•	17.9-26.2	Colon Cancer	21.6	13.9		
203.5	•	170.7-263.9	Coronary Heart Disease	216.0	166.0		
21.0	0	5.8-21.0	Homicide	7.2	3.2		
55.9	•	45.3-72.9	Lung Canoer	58.1	44.8		
16.2	٥	7.7-21.8	Motor Vehicle Injuries	15.8	9.0		
70.5	0	49.9-75.9	Stroke	62.0	48.0		
12.2	δ	6.4-16.8	Suicide	11.4	6.0		
24.7	P	12.6-28.1	Unintentional Injury	33.3	20.8		

Healthy People 2010 is grounded in science. built through consensus. and designed

to measure progress.

The total number of births during this time period was 35,972 and the total number of deaths was 18,991.

- Indicates a status favorable to peer county median value and 🥄 indicates that a closer look and perhaps reduction of the percent or rate may be needed. (A blank indicates that no comparison was made). DIF No report, fewer than 500 births and 3 events (birth measures and infant mortality) or fewer than 10 events (death measures) occurred during the specified time period.
- Eighty percent of the peer group values full within this range.

 Infant Mortality: deaths per 1,000 live births (Neonatal: < 29 days; Post-neonatal: 1 12 months).
- Rates are age-adjusted to year 2000 standard; per 100,000 population.

Source: National Center for Health Statistics, Vital Statistics Reporting System, 1995-1997.

6 FIPS Code: 13 - 121

DRAFT CHSI II Website

y People in Healthy Communities

CommunityHealth.gov



SEARCH

HEALTH PROFESSIONS: HEALTH CARE SYSTEMS: HIWAIDS MATERNAL & CHILD HEALTH

PRIMARY HEALTH CARE RURAL HEALTH

Our Mission...Promote Physical and Mental Health and Prevent Disease, Injury, and Disability

CHSI Select State & County Select a State Select a County Display Data

Ideas for Using the Report What's Really Killing Us?

Glossary of Terms

Contact Us

Community Health Status Report

The Community Health Status Report provides health Indicator. definitions, sources, and methods. To view a particular report. hist select a State and County from the dropdowns to the left. then click Display Data.

The Odmmunity Health Blatus Report is a collection of nationally available indicators for count as representing. arread in earth equired by for and it halff. White fire many of the includabilis there may be more It amone. defin floh of the same problem, or source, the descriptions that follow are the choice made for this project and the means: Brighourna II at health meascreo for con monities are consistent. and not based on differing caffoldons or methodologies

The estimates presented here rely on various data sources, methods, and united latering in the continuous wind the appropriate beginning that in the case M onguirposes. Users should be aware of the limitations of these estimates. Those data that are estimated doingt represent official Department of Health and Him in Service as all and We ning that he industrial and with he fit CHS Denotes will be useful to communities and request feedback and comments.

Data Sources, Definitions, and Notes

The Don money Health States Report provides hearth indicator delimitions, sources, and methods used in the Community Health Status Reports created by the Community = sulfit States from those CCHSB From classers in the first final calcing from the sea if as a reference for the luser of the county nearth profile provided for every U.S. County.

The Dommunity Health Status Report is a collection of nationally available indicators. und confine mights with greater diameter dimensional by for and it cone. In SWI letter many of the indicators there may be more than one method for talkulating rates on percentages as well as more transities definition of the same problem or so use, the descriptions that follow are the choice made for this project and the means for enguimadica, horallibro sacronis hor communities a neconis e entra direction pagentino different definitions or methodologies

Public Health

- Prevents epidemics and the spread of disease.
- Protects against environmental hazards.
- Prevents injuries
- Promotes and encourages healthy behaviors.
- Responds to disasters and assists communities in recovery
- Assures the quality and accessibility of health services.

Public Health Services

- Monitor health status and the spread of disease
- Diagnose and investigate health problems, and health hazards in the community
- Inform, reducate and empower people about health issues
- Mobilize community partnerships to identify and solve health problems
- Develop policies and plans that support individual and community health efforts:
- Enforce laws and regulations that protect safely
- Assure a competent public health and personal health care workforca.



New Features of CHSI II

- GIS component
- Searchable database (criteria for use)
- New partners
- Resources to build capacity for action
- Reframing some indicators to focus on conditions for health (social determinants)



Public Health

is what we, as a society, do collectively to assure the conditions in which people can be healthy.

Institute of Medicine 1988, 2003



Social Determinants of Health

are life enhancing resources, such as food supply, economic and social relationships, transportation, education, and health care, whose distribution across populations effectively determines length and quality of life.

Sherman James, PhD UNC Minority Health Conference March 1, 2002



Healthy People 2010

"...recognizes that communities, States, and national organizations will need to take a multidisciplinary approach to achieving health equity – an approach that involves improving health, education, housing, labor, justice, transportation, agriculture, and the environment, as well as data collection itself." Healthy People 2010, p. 16



Key Determinants of Community Health

DRAFT

Opportunity

Poverty
High school graduation
Median income
Education level of parent
Home ownership
Housing tenure

Community Health

Place

Air quality
Environmental toxins
(Grocery stores,
transportation, etc.)

People

Demographics
Morbidity & mortality
Behavioral risk factors



Opportunities

- Encourage increased collecting and monitoring of county-level data
- Contribute to the development of SME methods
- Increase our understanding of health and conditions for health as experienced by communities
- Bring emphasis to the need to address conditions for health in order to eliminate health disparities



Challenges

- Acquire resources to add indicators & tools
- Disseminate to previous & new users
- Evaluation
- Keep up with the technology
- Small area estimation challenges
- Make useful to communities, as well as to researchers
- Sustain via institutionalizing, new partners



What gets counted, counts.

