

The County Health Rankings Project Hillsdale County, Michigan

A Product of the Robert Wood Johnson
Foundation

&

The University of Wisconsin Population
Health Institute



What are the County Health Rankings?

- ◆ The *Rankings* are based on a model of population health that emphasizes the many factors that, if improved, can help make communities healthier places to live.



Sources of Data

(Alphabet Soup)

- ✦ Centers for Disease Control and Prevention (CDC):
- ✦ Behavioral Risk Factor Surveillance System (BRFSS)
- ✦ National Center for Health Statistics (NCHS)
- ✦ National Center for Chronic Disease Prevention and Health Promotion (Division of Diabetes Translation)
- ✦ National Center for Hepatitis, HIV, STD, and TB Prevention
- ✦ Environmental Protection Agency (EPA)
- ✦ Health Resources and Services Administration (HRSA)
- ✦ Decennial Census
- ✦ American Community Survey (ACS)
- ✦ Census/Current Population Survey: Small Area Health Insurance Estimates and Income and Poverty Estimates, and Census County and Zip Code Business Patterns
- ✦ Federal Bureau of Investigation (FBI)
- ✦ Medicare claims/The Dartmouth Institute
- ✦ National Center for Education Statistics (NCES)
- ✦ Bureau of Labor Statistics (BLS)

What Process was used to select the measures used in the Rankings

- ✦ Review of the literature around the impact of various factors on health outcomes
- ✦ Ability for factors to be modified through community action
- ✦ Availability and reliability of measures at the county level throughout the nation
- ✦ Analysis and feedback by a panel of technical experts.

Ranking Methods

- ◆ The County Health Rankings include 2 primary categories
 - ◆ Health outcomes (2)
 - ◆ Health factors (4)



Health Outcomes

Health outcomes - represents how healthy a county is. This report measure two types of health outcomes:



✦ Mortality - how long people live

✦ Morbidity - how healthy people feel while alive

Health Outcome Categories - Mortality

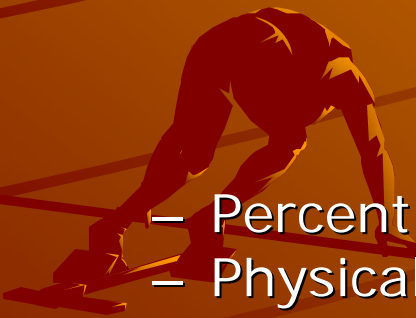
- ◆ Mortality – Measurement Tool- Years of Potential Life Lost YPLL (premature death)
- ◆ The YPLL measure is presented as a rate per 100,000 population and is age-adjusted to the 2000 U.S. Census.
- ◆ Age-adjusting adjusts for variations in population against a standard (US Census)

Health Outcomes - Morbidity

- ✦ Morbidity -refers to how healthy people feel while alive. Specifically the measures of health-related quality of life (overall health, physical health, mental health) and birth outcomes (babies born with a low birth weight). This information is obtained mostly through surveys.

Measurement Tools

- Percent reporting poor or fair health (BRFS)
- Physically unhealthy days (BRFS) / Month
- Mentally unhealthy days (BRFS) / Month
- Low birth weight live births (Birth files)



Health Factors

Health factors represents what influences the health of a county. The Report measure four types of health factors:

- ◆ Health behaviors
- ◆ Clinical care
- ◆ Social and economic
- ◆ Physical environment

Factor # 1 - Health Behaviors

Focus Area

Smoking

Diet & Exercise

Alcohol use

Unsafe Sex

Measures

Adult smoking rate

Adult obesity rate

Binge drinking

MV crashes w alcohol

Chlamydia rate

Teen Birth rate

Data sources: BRFSS, MV Reports, NCHS, ACS

Factor # 2 - Clinical Care

Focus Area

Measure

Access to care

Adult uninsured
Primary Care Providers

Quality of Care

Hospice use
Diabetic screening
Ambulatory Hospitalization
(infections, diabetes, asthma)

Data Sources: BRFS, NCCDP, HRSA, NCHS




Factor # 3 - Social and Economic

Sources: NCES, BLS, ACS, Census

Focus area

Measures



◆ Education	Grad. Rate/College Degrees
◆ Employment	Unemployment rate
◆ Income	Children in poverty; income inequality (%/household)
◆ Inadequate Social Supports	Social emotional support;
◆ Single parent HH	Percent from ACS
◆ Safety	Violent crime rates

Factor # 4 - Physical Environment

Focus Areas

✦ Environmental Quality

✦ Built Environment

Measurement Tools

Ozone pollution days
Air pollution particulate matter days

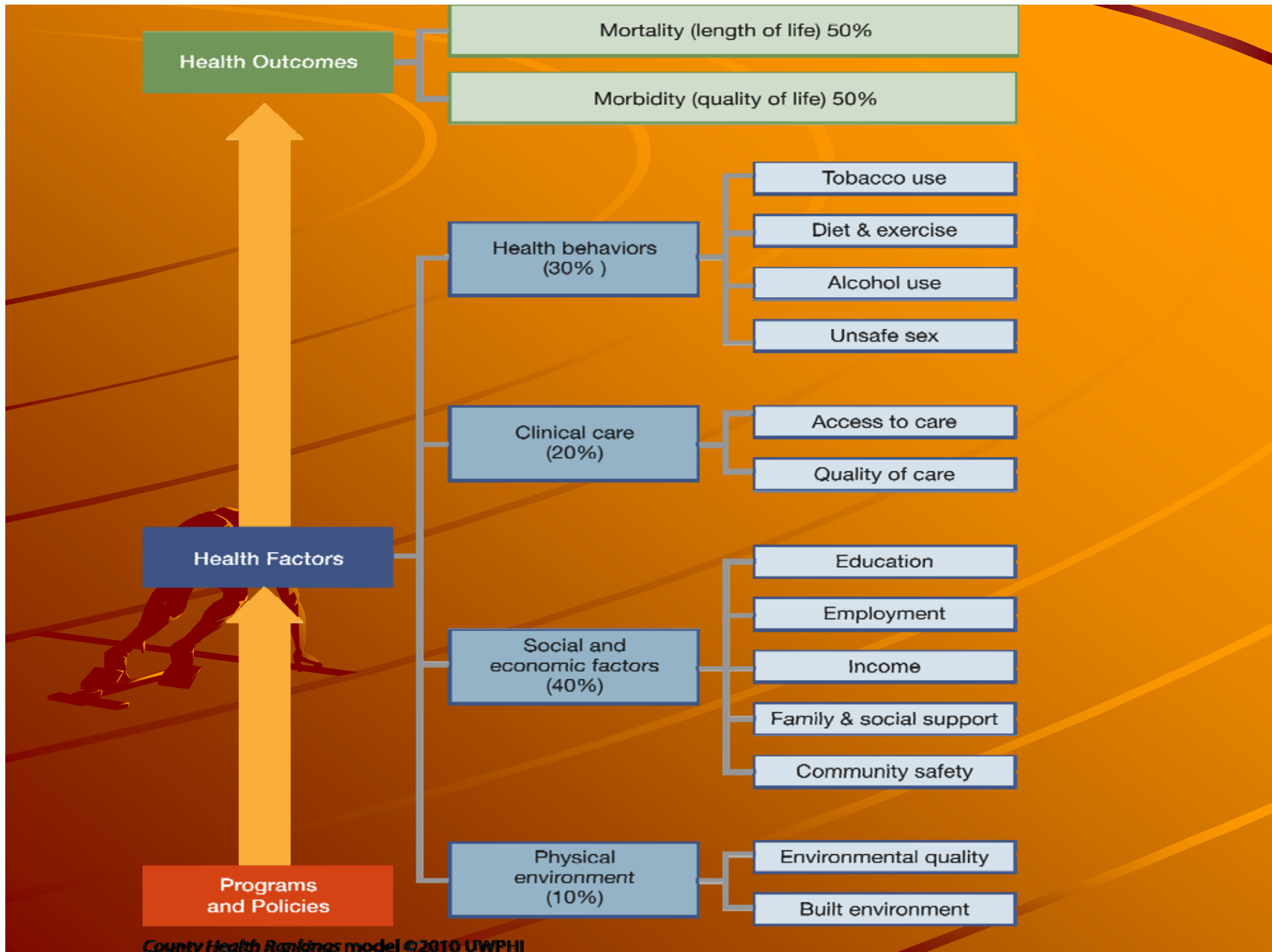
Access to healthy foods
Liquor Store Density

Sources: EPA, CDC, US Census

Computing your 'Score'

- ✦ The Rankings are based on summary composite scores of individual measures. Ranking is based on 82 Counties (Keweenaw not included; pop. 2200)





Summary of Scores

Combined

◆ Health Outcomes

29

– Mortality 31/82

– Morbidity 41/82

◆ Health Factors

56

– Behaviors 47/82

– Clinical Care 58/82

– Social/Econ. 51/82

– Physical Env. 64/82

Hillsdale County

	County	MI	Rank
Mortality (per 100k)	6778	7390	31
Morbidity			41
Poor/fair health	18%	14%	
Poor physical health	3.6 days	3.6	
Poor mental health	2.8 days	3.7	
Low Birth weight	7%	8%	
Health Behaviors			47
Adult Smoke	24%	23%	
Adult Obesity	29%	28%	
Binge Drink	19%	18%	
MV Crash Death Rate	27	13	
Chlamydia Rate	119	370	
Teen Birth Rate	39	36	


Hillsdale County

	County	MI	Rank
Clinical Care			58
Uninsured Adults	11%	12%	
Primary Care Providers (Per 100k)	55	113	
Prevent/Hospitalizations (Medicare only)	83	76	
Diabetic Screening (Medicare only)	81%	82%	
Hospice Use (2001-2005 data)	32%	38%	

Hillsdale County

	County	MI	Rank
Social & Economic			51
HS Graduation	75%	72%	
College Degrees	15%	24%	
Unemployment	11%	8%	
Kids in Poverty	21%	19%	
Income Inequality	40	45	
Inadequate Social Support	19%	19%	
Single parent HH	8%	10%	
Violent Crime rate	218	550	
Physical Environment			64
Air Pollution Days	5	3	
Ozone Days	4	4	
Access to Healthy Foods	19%	51%	
Liquor Store Density	.4	1.1	

Final Rankings

- ◆ Goes back to the 2 summary categories – Outcomes, Factors
 - ◆ Health Outcomes – How healthy is the County (2)
 - ◆ Health Factors – What factors are influencing the health of the County (4)
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Health Outcomes Ranking (Mortality, Morbidity) How do we stack up?

- ◆ 1. Livingston County
- ◆ 15. Lenawee
- ◆ **29. Hillsdale**
- ◆ 32. Ingham
- ◆ 37. Kalamazoo
- ◆ 46. Van Buren
- ◆ 47. Branch
- ◆ 63. Cass
- ◆ 65. Jackson
- ◆ 69. St. Joseph
- ◆ 75. Calhoun
- ◆ 81. Wayne
- ◆ 82. Clare

Health Factors Ranking

Behaviors, clinical care, environment, social/economic

1. Washtenaw

13. Kalamazoo

24. Lenawee

30. Ingham

47. Van Buren

50. Cass

53. Jackson

56. Hillsdale

58. St. Joseph

60. Branch

73. Calhoun

82. Wayne

Health Factors – Component Rankings

	Health Behavior	Clinical Care	Social Economic	Physical Environ.
Branch	49	79	39	69
Hillsdale	47	58	51	64
St. Joseph	61	68	47	25
Calhoun	71	29	74	58
Jackson	59	40	46	32
Lenawee	26	24	28	62
Cass	63	73	27	53
Kalamazoo	13	19	20	63

HD – Physical Environment – 3/16 zips with Healthy Foods, SJ county 7/10, BR County 2/6 (and farm markets)

Now What?

- ◆ Improving your community's health involves a cycle of activities
- ◆ Assessing needs and resources,
- ◆ Picking priorities,
- ◆ Finding programs and policies that work
- ◆ Implementing strategies
- ◆ Evaluating efforts.



Take Action

WORK TOGETHER



Strengths/Weaknesses

- ◆ + Wide variety of indicators
- ◆ - Missing some key indicators
 - ◆ Immunization rates/parks & rec. opportunities/population density/non-violent crime
- ◆ - Some data is 'old'
- ◆ - Several elements are estimates
- ◆ + Starts Communities Talking



✦ Questions?

✦ Follow-up?

