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# A Dialogue on Rural Social Determinants and the Effect on Health

North Country Health Consortium Whitefield, NH ~ November 13, 2015

A Consortium of

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The Walsh Center for Rural Health Analysis



#### **Social Determinants**

World Health Organization definition:

"the circumstances in which people are born, grow up, live, work and age, and the systems put in place to deal with illness. These circumstances are in turn shaped by a wider set of forces: economics, social policies, and politics."



#### Social Determinants of Health

- 1) Economic stability
  - Poverty, employment, food security, housing stability
- 2) Education
  - High school graduation, enrollment in higher education, language and literacy, early childhood education and development
- 3) Social and community context
  - Social cohesion, civic participation, perceptions of discrimination and equity, incarceration/institutionalization
- 4) Health and health care
  - Access to health care, access to primary care, health literacy
- 5) Neighborhood and built environment
  - Access to healthy foods, quality of housing, crime and violence, environmental conditions

Healthy People 2020 Framework. http://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic/social-determinants-healthypeople.gov/2020/topics-objectives/topic-determinants-healthypeople.gov/2020/topics-objectives/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.gov/2020/topic-determinants-healthypeople.g



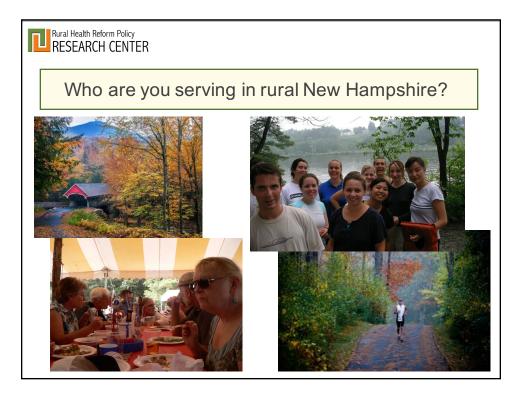
#### Social Determinants of Rural Health

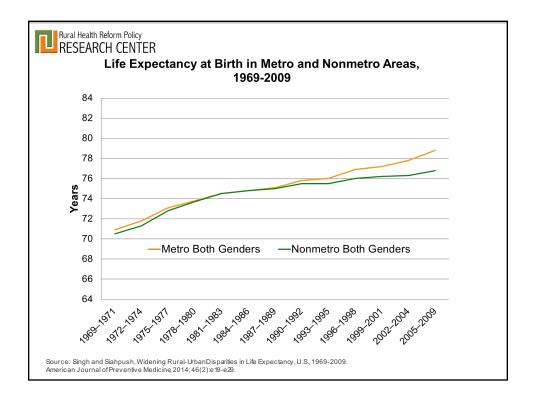
- Rural residents tend to be poorer than urban residents
  - Average median household income is \$42,628 for rural counties (\$52,204 for urban counties) (2013)
  - The average percentage of children living (ages 0-17) living in poverty is 26% in rural counties (21% urban) (2013)
- Rural residents' educational attainment (2009-2013) -Averaged across counties
  - 16.5% have < high school education (14.7% urban)
  - 36.3% have only a high school diploma (31.9% urban)
  - 17.4% have a Bachelor's degree or higher (24% urban)



# Social Determinants Impact on Access to Health Care

- Poverty, income, and employment status contribute to:
  - Health insurance coverage
  - The ability to pay out-of-pocket costs such as co-pays and prescription drug costs
  - Time off work to go to an appointment
  - A means of transportation to visit a healthcare provider
- The skills to effectively communicate with healthcare providers
- An expectation that they will receive quality care, whatever their race/ethnicity or income level.







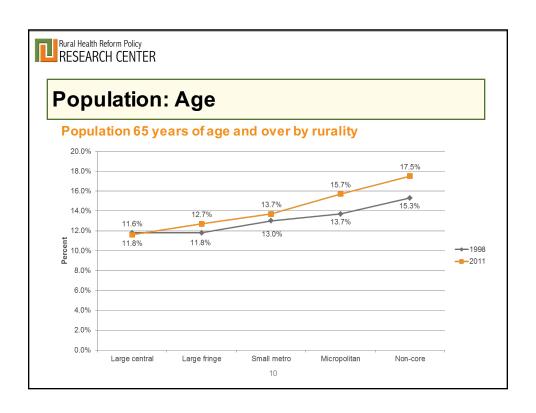
Examination of Trends in Rural and Urban Health: Establishing a Baseline for Health Reform

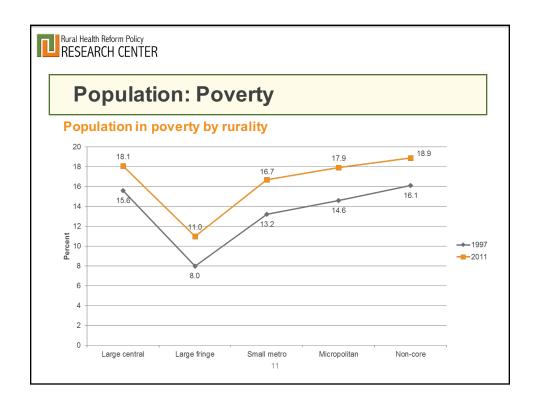
- CDC published Health United States, 2001 With Urban and Rural Health Chartbook
  - No urban/rural data update since 2001
- · Purpose of this study:
  - Update of rural health status ten years later to understand trends
  - Provide baseline of rural/urban differences in health status and access to care prior to ACA implementation

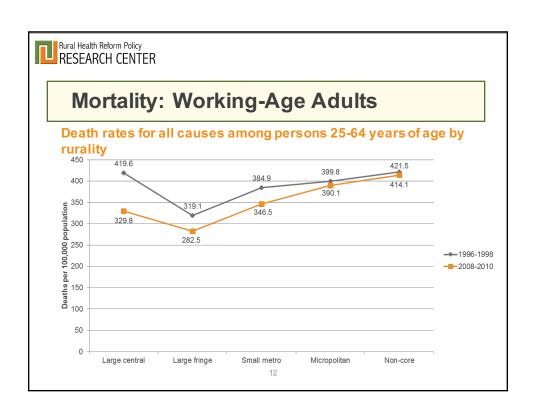


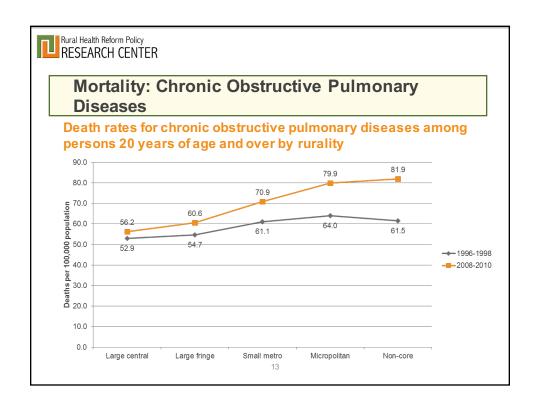
#### **Methods**

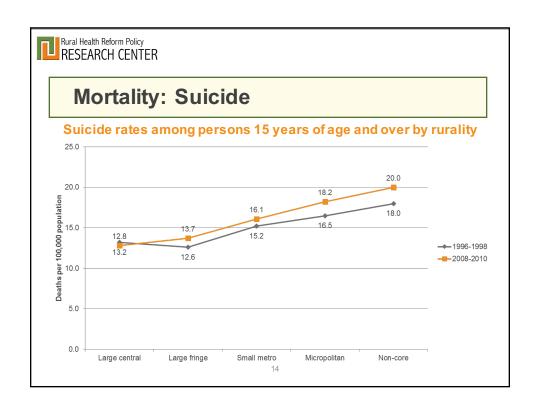
- Replicated analyses conducted in 2001 using most recent data available (2006-2011)
- Used same data source, when possible:
  - · National Vital Statistics System
  - Area Resource File (HRSA)
  - U.S. Census Bureau
  - National Health Interview Survey (NCHS)
  - · National Hospital Discharge Survey (NCHS)
  - National Survey on Drug Use and Health (SAMHSA)
  - Treatment Episode Data Set (SAMHSA)
- Applied same geographic definitions, although classifications may have changed since 2001:
  - Metropolitan Counties: large central, large fringe, small
  - Nonmetropolitan Counties: with a city ≥ 10,000 population, without a city ≥ 10,000 population

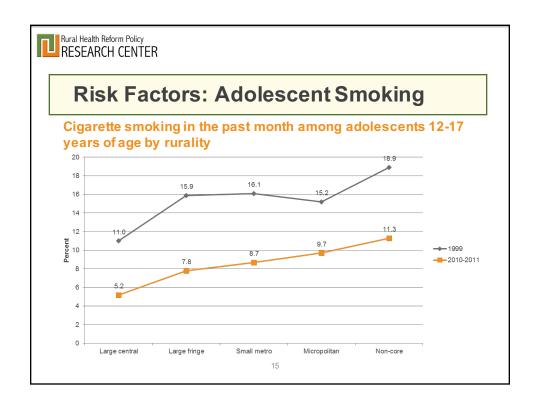


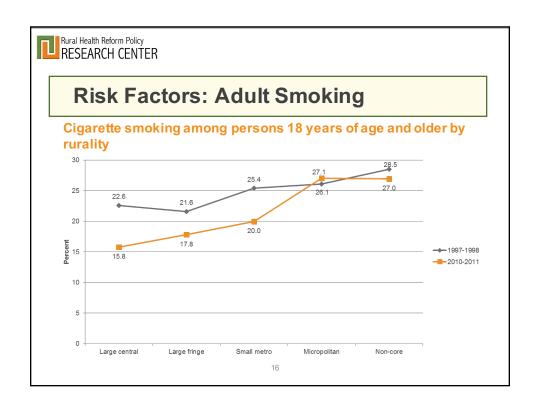


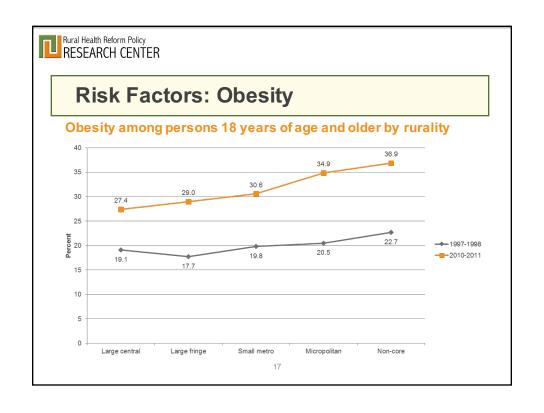


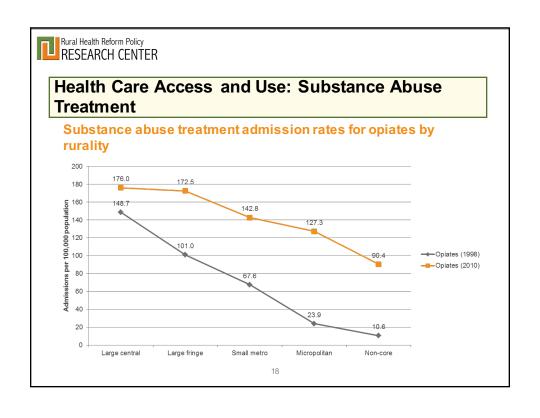


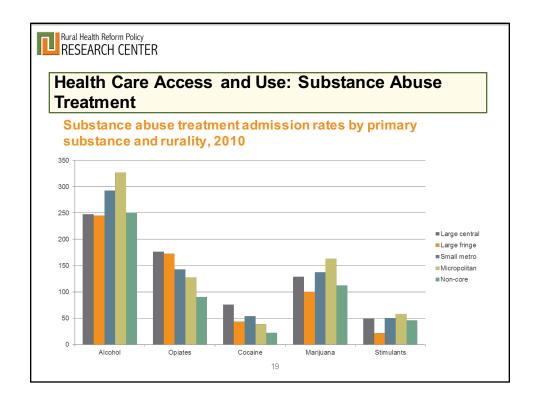














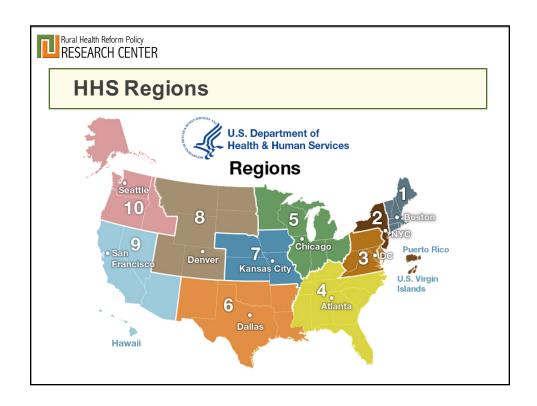
## **Regional Mortality Study**

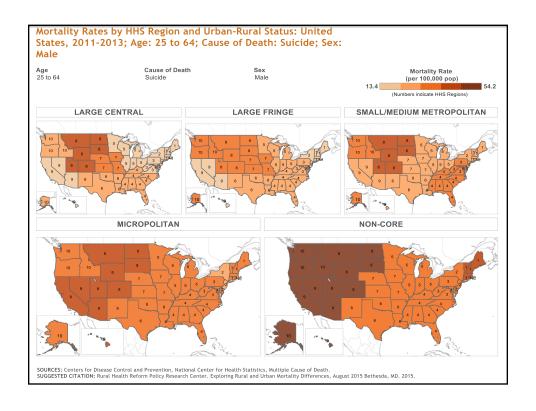
 Purpose: To examine the impact of rurality on mortality and to explore the regional differences in the primary and underlying causes of death.

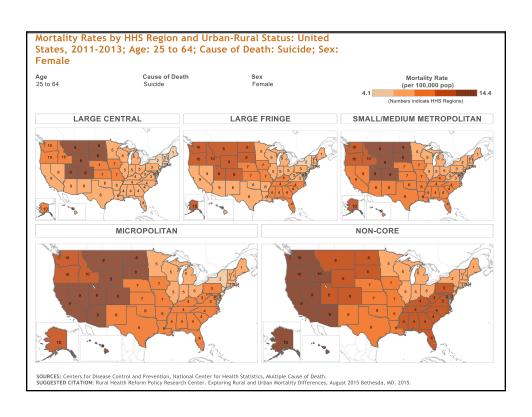


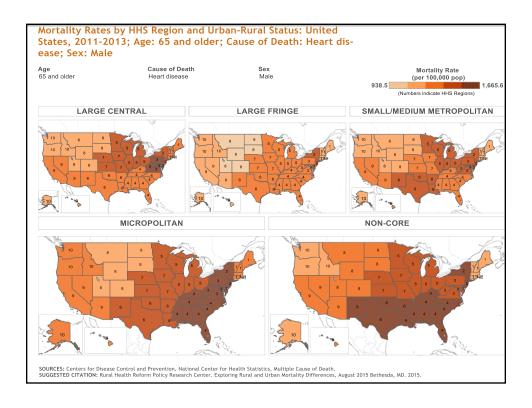
#### **Methods**

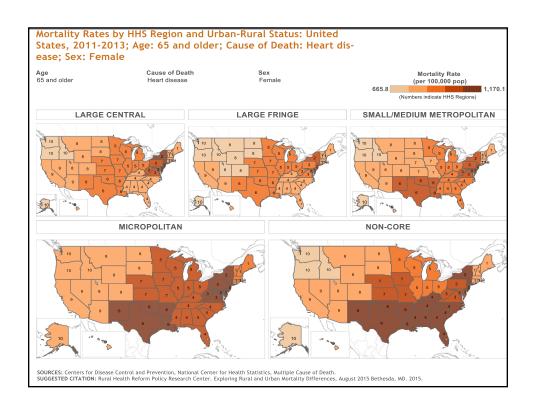
- Mortality data pulled from National Vital Statistics System (NVSS)
  - Years 2011-2013
- Data are Grouped by:
  - 2013 NCHS Urban-Rural Classification Scheme for Counties
    - (Large Central, Large Fringe, Small/Medium Metro, Micropolitan, Non-core)
  - HHS Regions
  - Age
  - Gender
  - · Cause of Death
    - Top 10 Nation-wide causes of death for each age group

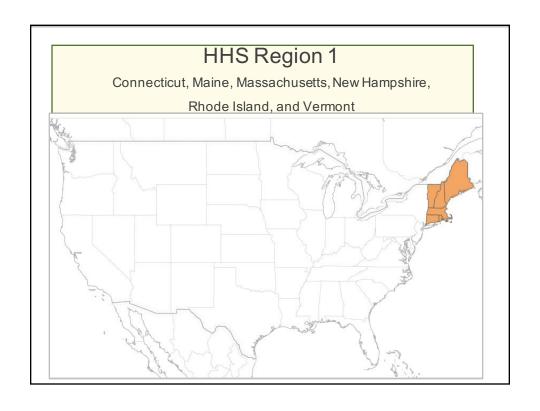


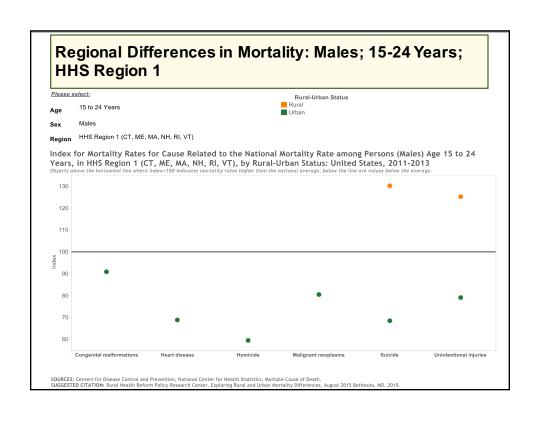


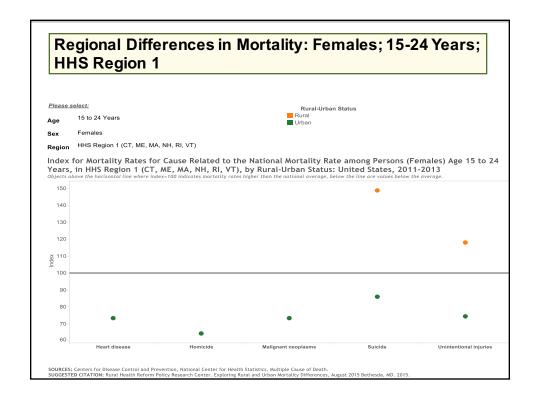


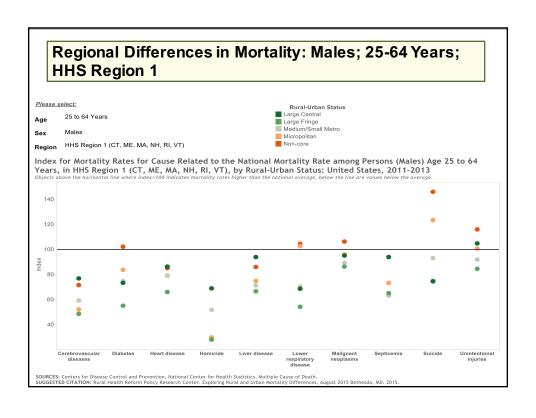


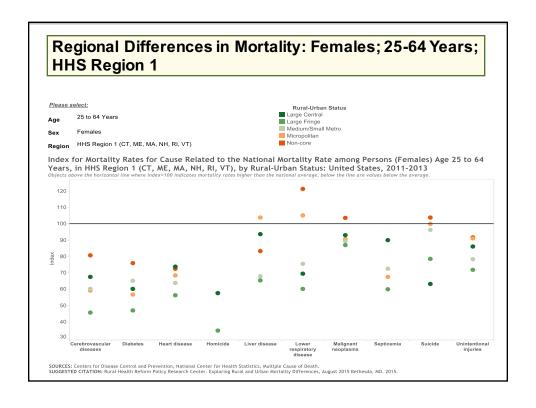


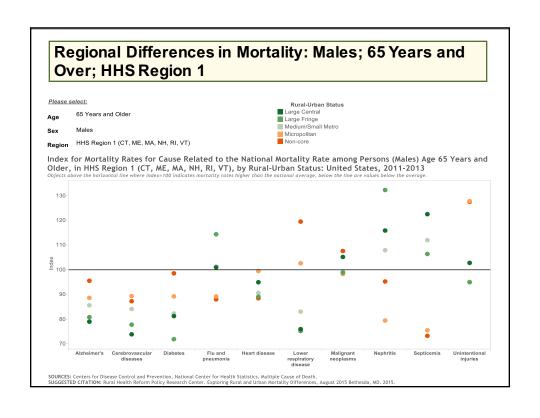


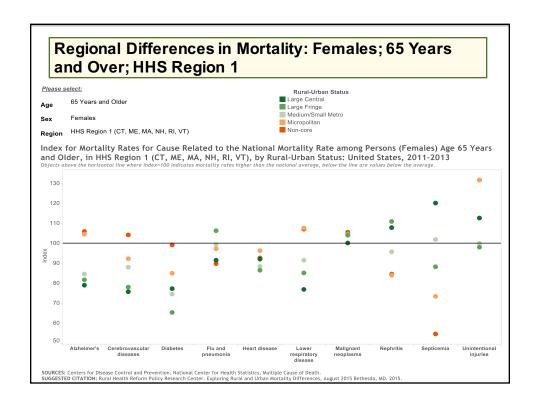


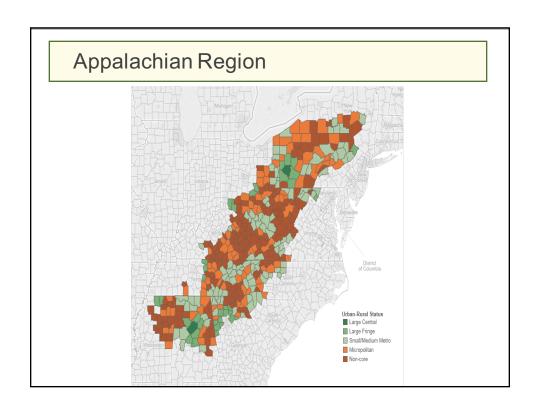


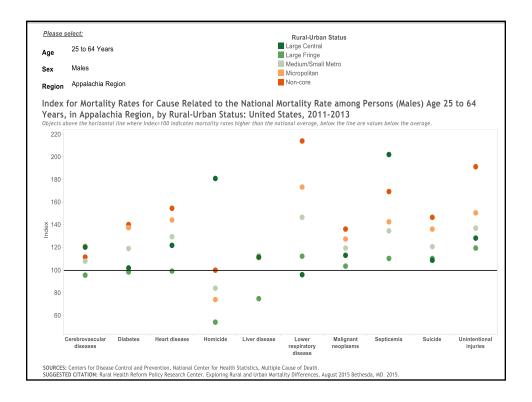














#### Summary

- Place matters
  - Cause-specific mortality varies by region
  - Regional differences that may impact mortality include:
    - Culture
    - Demographics
    - Health behaviors
    - Morbidity
- Sparsely populated areas have high mortality rates



### Rural Resources to Improve Health

- RAC's Community Health Gateway
  - Conducted on behalf of the Health Resources and Services Administration (HRSA) Federal Office of Rural Health Policy (ORHP)
  - A compilation of evidence-based practices and resources that can strengthen rural health programs
  - New toolkits each year on different topics that target ORHP grantees, future applicants, and rural communities
  - · Rural Health Models and Innovations Hub
  - https://www.raconline.org
- Rural Health Research Gateway
  - https://www.ruralhealthresearch.org/





