

CDC's Growing Interest in Rural Health

Michael Meit

NOSORH Regional Meeting Pensacola, FL September 6, 2018



Centers for Disease Control and Prevention



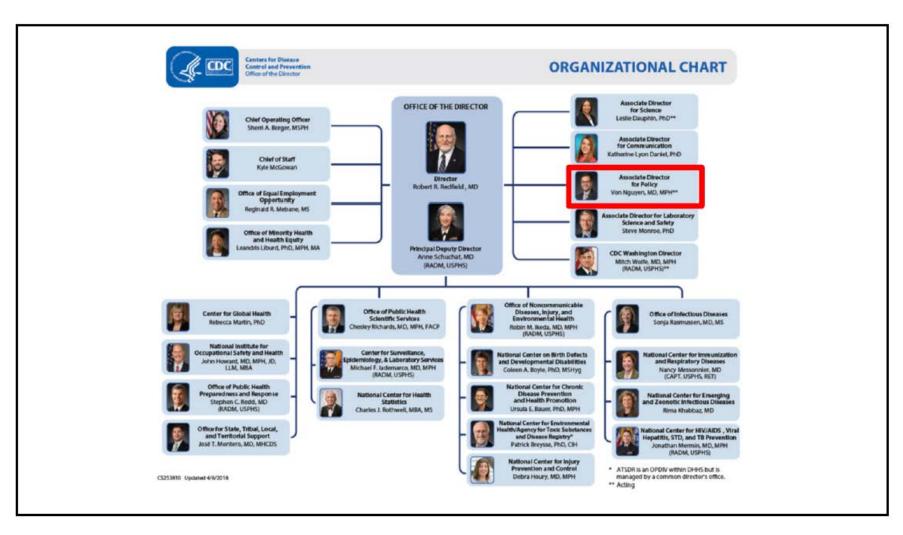
Insights from CDC's MMWR Series on Rural Health

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NRHA 41st Annual Rural Health Conference

5/9/2018





Office of the Associate Director for Policy (OADP)

- The Office of Health System Collaboration (OHSC)
 - Enhances relationships and activities with key health care partners
 - CDC's 6 | 18 initiative
 - Clinical system and community health intervention coordination & collaboration
- Program Performance and Evaluation Office (PPEO)
 - Work across CDC to help programs with strategy, priorities, performance improvement, and program evaluation
 - Drive use of data
 - Build evaluation capacity

Office of the Associate Director for Policy (OADP) cont.

- Policy, Research, Analysis, and Development Office (PRADO)
 - Economic and budget impact analyses of high priority interventions
 - Capacity building across CDC
 - Synthesize and translate CDC science for a policy audience
 - CDC's Health Impact in 5 Years (HI-5) initiative
 - Coordinate CDC's rural health work



Morbidity and Mortality Weekly Reports (MMWR)

- CDC's primary vehicle for scientific publication of timely, reliable, authoritative, accurate, and objective public health data and recommendations
- Nearly 280K subscribers and was viewed more than 23 million times in 2016.
- Large social media following, with nearly 42,000 followers.
- In 2017, 13 in a year-long Rural Health Series

Leading Causes of Death in Nonmetropolitan and Metropolitan Areas — United States, 1999—2014

Contact for Diseas Cambriant Proceedings

Morbidity and Morbidity and Morbidity Mosel Report 13, 2017

Contact for Diseas Cambriant Proceedings

Morbidity and Morbidity Mosel Morbidity and Morbidity Mosel Report 15, 2017

Differences in Health Care, Family, and Community Factors Associated with Mental, Behavioral, and Developmental Disorders Among Children Aged 2–8 Years in Rural and Urban Areas — United States, 2011–2012

https://www.cdc.gov/mmwr/index.html
https://www.cdc.gov/mmwr/rural health series.html

MMWR Rural Health Series

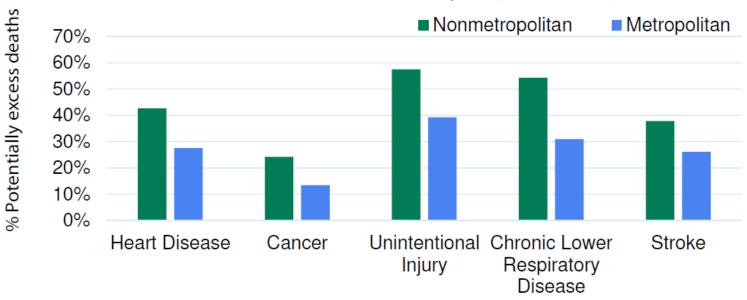
- Leading Causes of Death (1/13/17)
- Reducing Potentially Excess
 Deaths (1/13/17)
- Health-related Behaviors (2/3/17)
- Children's Mental Health (3/17/17)
- Diabetes Self-Management Education (4/28/17)
- Air and Drinking Water Quality (6/23/17)

- Cancer (7/7/17)
- BRCA Genetic Testing (9/8/17)
- Passenger Vehicle Deaths (9/22/17)
- Suicide (10/6/17)
- Illicit Drug Use (10/20/17)
- Occupational Air Quality (11/3/17)
- Racial/ethnic disparities (11/17/17)

https://www.cdc.gov/mmwr/rural health series.html

Rural areas experience higher age-adjusted death rates from the five leading causes of death

Percentage of potentially excess deaths among persons aged <80 years for five leading causes of death — National Vital Statistics System, United States, 2014



Moy E, Garcia MC, Bastian B, et al. Leading Causes of Death in Nonmetropolitan and Metropolitan Areas — United States, 1999–2014. MMWR Surveill Summ 2017;66(No. SS-1):1–8. DOI: http://dx.doi.org/10.15585/mmwr.ss6601a1.

Other Findings

- Disparities between rural and non-rural populations can vary by:
 - Race
 - Region
 - Age

Extending the Reach – Science, Policy, Practice

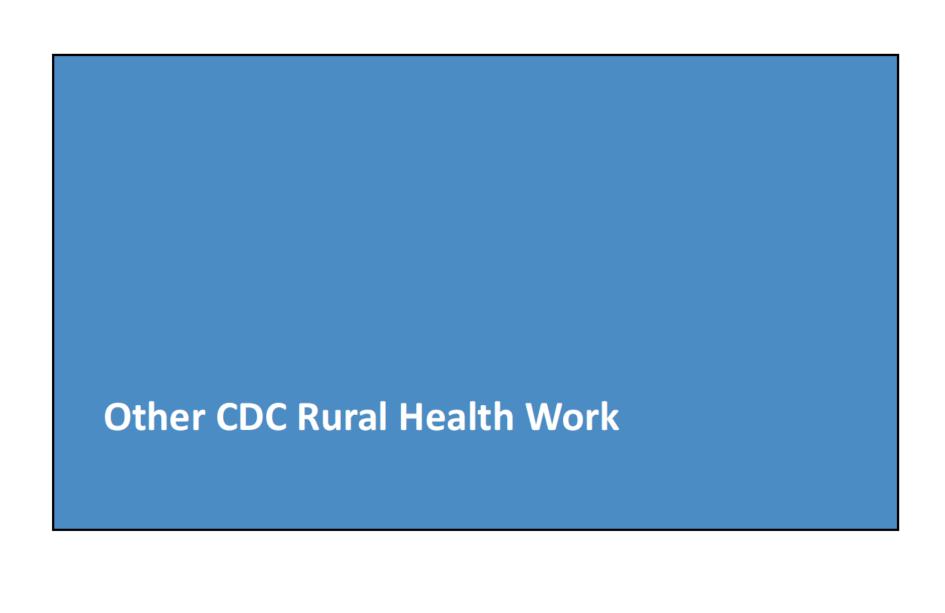
- Journal editorials
 - NEJM
 - Journal of Rural Health
 - Journal of Health Care for the Poor and Underserved
- CDC policy briefs
- Hill outreach, briefing on Injury reports
- Webinars with FORHP's RHIhub



Policy Briefs

- Online:
 - Children's mental health
 - Diabetes
 - Seat belts
 - Opioids
- Coming soon:
 - Suicide
 - Cancer





Example: Addressing Social Determinants of Health

In fiscal 2017, the High Obesity program supported obesity reduction activities in

- 49 counties across 11 states
- Reaching over 1.9 million residents
- Predominantly rural communities in the South and Midwest
- Awards to land grant institutions and cooperative extension

Auburn University example

- Working in 14 Alabama counties
- Created new walking and biking trails
- Established safe routes to school

Other CDC Activities

- Funding announcements
- Internal work group
- Trainings for CDC staff
- Partnerships

Finding Information on CDC.gov

- CDC Rural Health webpage https://www.cdc.gov/ruralhealth/index.html
- POLARIS policy portal https://www.cdc.gov/policy/polaris/
- POLARIS rural health page (coming soon!)
 https://www.cdc.gov/policy/polaris/healthtopics/ruralhealth.html

ADPolicy@cdc.gov

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

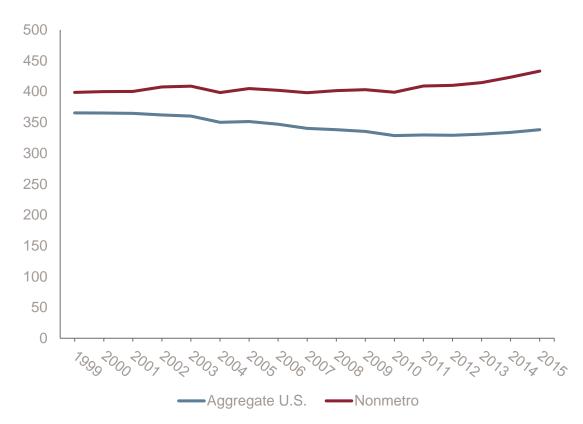
The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





Rural Health Disparities

Trends in Age-adjusted Mortality Rate by Sex and Rurality, 1999-2015

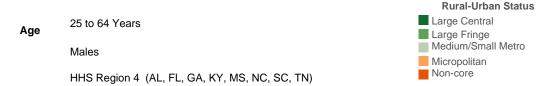


^{*}Aggregate includes both Metro and Nonmetro. Both rates are inclusive of individuals ages 25-64.

Centers for Disease Control and Prevention, National Center for Health Statistics. Multiple Cause of Death 1999-2015 on CDC WONDER Online Database, released December, 2016. Accessed at http://wonder.cdc.gov/mcd-icd10.html

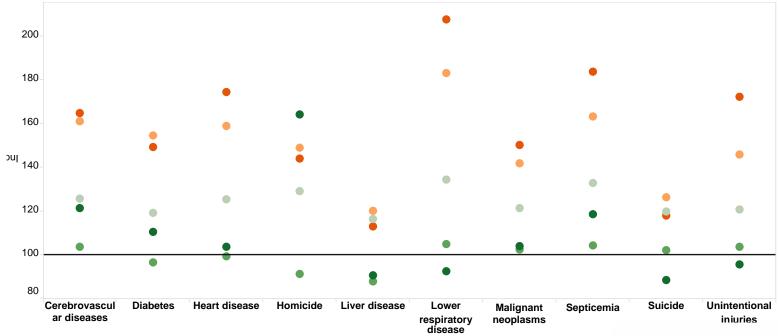


Rural Health Disparities – HHS Region 4, Males 25-64



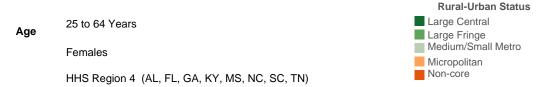
Index for Mortality Rates for Cause Related to the National Mortality Rate among Persons (Males) Age 25 to 64 Years, in HHS Region 4 (AL, FL, GA, KY, MS, NC, SC, TN), by Rural-Urban Status: United States, 2011-2013

Objects above the horizontal line where index=100 indicates mortality rates higher than the national average, below the line are values below the average.

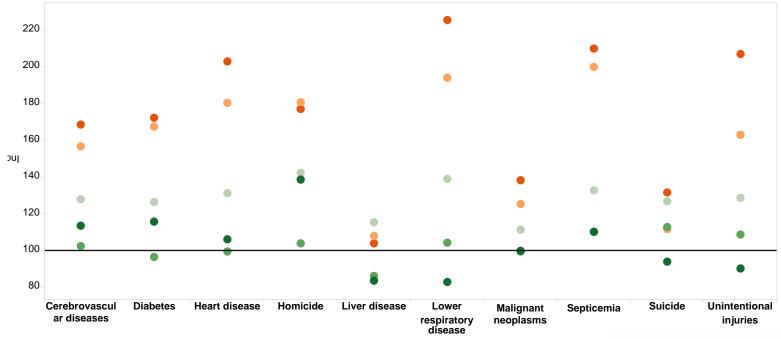




Rural Health Disparities – HHS Region 4, Females 25-64



Index for Mortality Rates for Cause Related to the National Mortality Rate among Persons (Females) Age 25 to 64 Years, in HHS Region 4 (AL, FL, GA, KY, MS, NC, SC, TN), by Rural-Urban Status: United States, 2011-2013 Objects above the horizontal line where index=100 indicates mortality rates higher than the national average, below the line are values below the average.





Health departments cutting staff, service hours with unsure future Health department cuts would hit state's most vulnerable, could cost By Marwa Eltagouri · Contact Reporter more in long run Health department cuts staff, increases fees September 1, 2017 By CANDY NEAL cneal@dcherald.com Some Fig. Abusarsa **Wyoming Department Of Health Cuts Will Impact Programs And Cost Private Sector Jobs** Health department cuts will cost Nine health department clinics millions for clinics helping closing in MS uninsured patients Published: Thursday, January 21st 2016, 7:14 pm EST BY: Megan Allison Updated: Friday, January 22nd 2016, 3:52 pm EST POSTED: 3:26 PM, Nov 16, 2017 By Quentis Jones, Reporter CONNECT

NACCHO LHD Analysis by Geography

- Investigate differences between urban and rural health agencies in terms of:
 - Funding sources;
 - Clinical and population-based service provision; and
- Identify opportunities and challenges facing rural public health agencies





NACCHO Profile Analysis – Small versus Rural

	Urban n(%)	Large Rural n(%)	Small Rural n(%)	Total
<50,000	224 (20.2)	205 (18.5)	680 (61.3)	1109
50,000-99,999	126 (40.9	136 (44.2)	46 (14.9)	308
100,000+	438 (85.4)	58 (11.3)	17 (3.3)	513

Data source: Rural-Urban Analysis of 2016 NACCHO Profile Data





Findings – Revenue Sources

Proportion of revenue by rurality

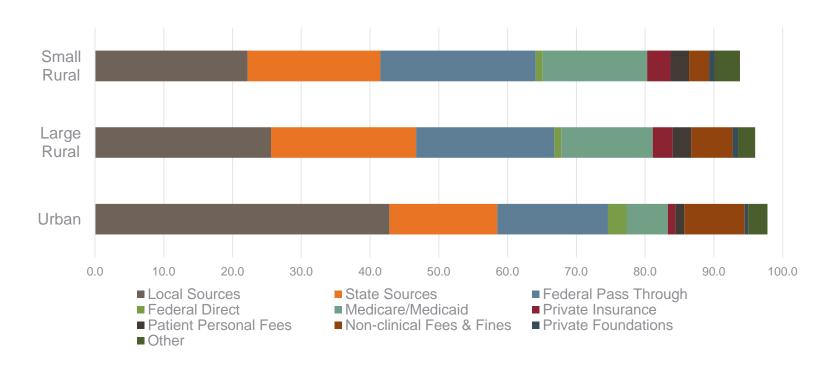
	Proportion of revenue					
	Urban	Large Rural	Small Rural	Sig.		
Local Sources	42.8	25.6	22.2	0.001		
State Sources	15.7	21.1	19.3	0.001		
Federal Pass Through	16.1	20.1	22.6	0.001		
Federal Direct	2.7	1.0	1.0	0.001		
Medicare/Medicaid	6.0	13.3	15.2	0.001		
Private Insurance	1.1	2.9	3.4	0.001		
Patient Personal Fees	1.3	2.7	2.7	0.001		
Non-clinical Fees & Fines	8.8	6.0	2.9	0.001		
Private Foundations	0.5	0.8	0.8	NS		
Other	2.8	2.5	3.7	NS		

- Urban HDs rely more heavily on local sources than large rural and small rural LHDs
- Both large rural and small rural LHDs rely more heavily on state and federal pass through revenue than urban LHDs
- The proportion of funds that came from clinical funding sources, including Medicare/Medicaid, private insurance, and personal patient fees were significantly higher for large and small rural HDs compared to urban LHDs.



Findings – Revenue Sources

Local Health Department Revenues by Degree of Rurality



Data source: Rural-Urban Analysis of 2016 NACCHO Profile Data





Findings – Service Provision

Clinical Services

• In terms of services performed by the LHD directly, rural LHDs were more likely to provide immunizations, screenings, treatment of communicable diseases, and maternal and child health services than urban LHDs.

Population-based services

- In terms of services performed by the LHD directly, rural LHDs (both large and small) were more likely to report conducting communicable disease and infectious disease epidemiology and surveillance.
- Urban LHDs were more likely to provide environmental surveillance.



Policy Implications

- Urban communities are served by LHDs with more local revenue and more community capacity to provide the clinical services vital to those who need care. They can focus more on population-based services.
- Many rural LHDs must retain direct care services due to community need.
- Large and small rural LHDs are more vulnerable to changes in state and federal funding.
- Organizations that work to support LHDs need to consider how they can support both rural and urban health departments in pursuing their missions to improve health in their jurisdictions.

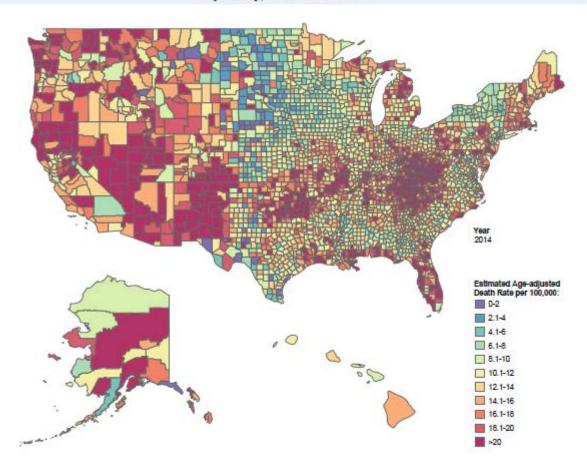






Estimated Death Rates for Drug Poisonings By County: 1999 - 2014

Estimated Age-adjusted Death Rates§ for Drug Poisoning by County, United States: 2014

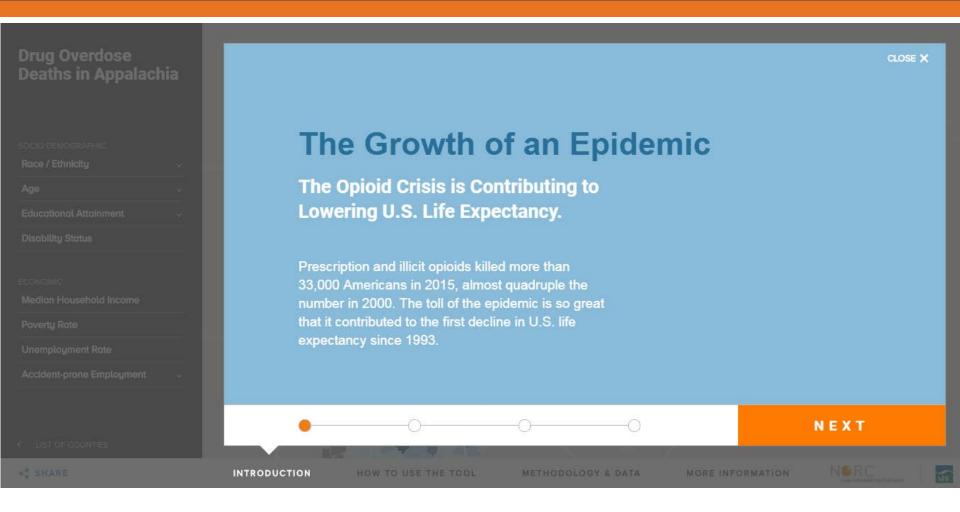


Designed by L. Rossen, B. Bastian & Y. Chong. SOURCE: CDC/NCHS, National Vital Statistics System.

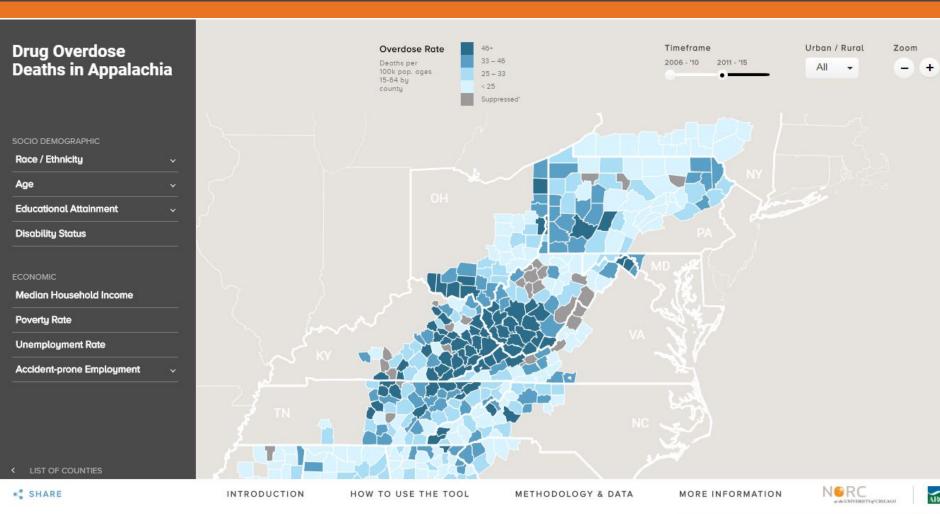
Produced by East Tennessee State University College of Public Health using CDC NCHS Data



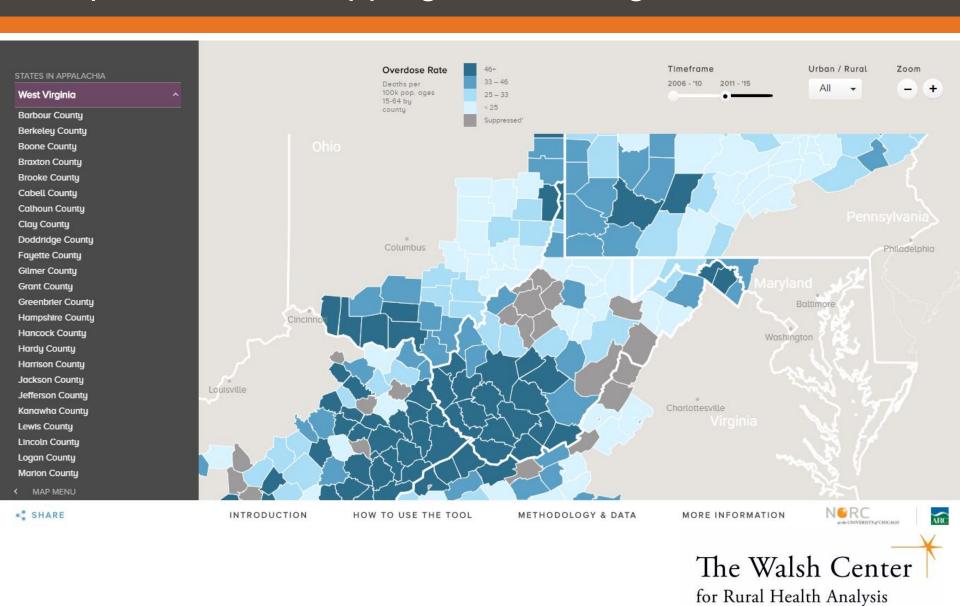
NORC Overdose Mapping Tool



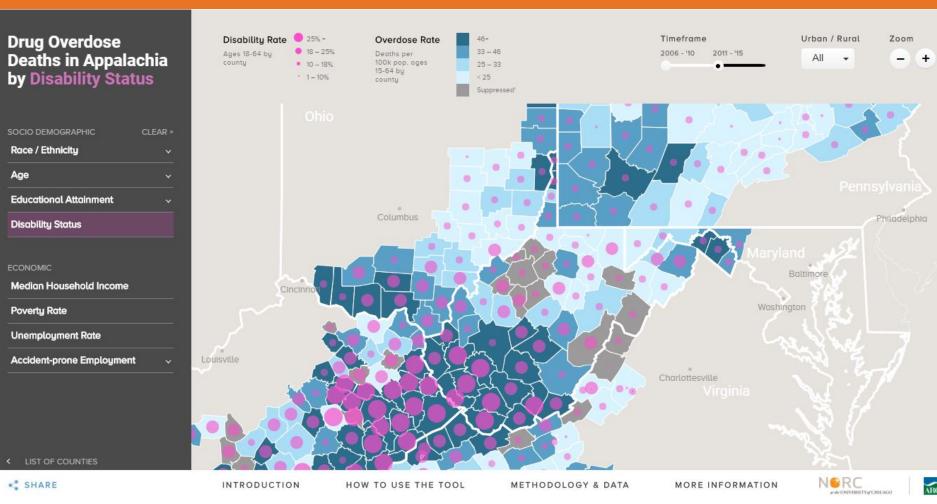




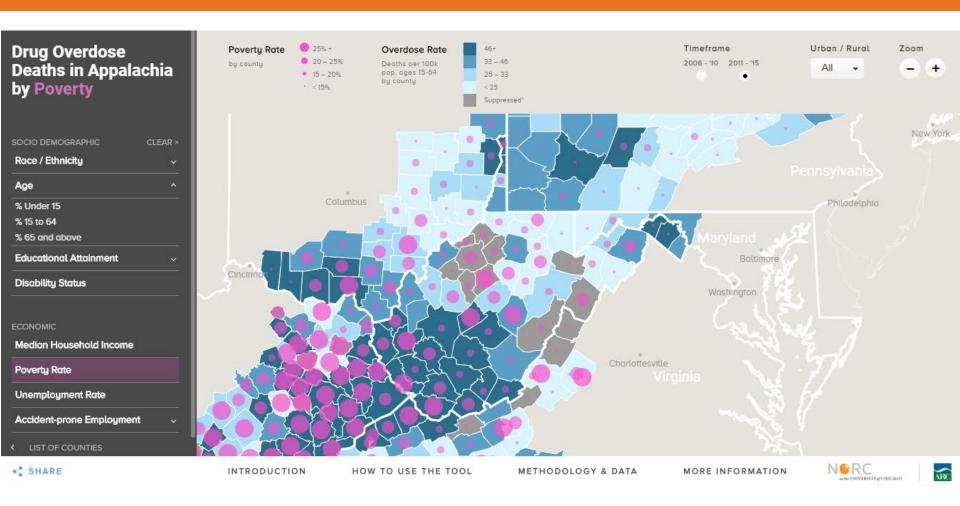




NORC AT THE UNIVERSITY OF CHICAGO

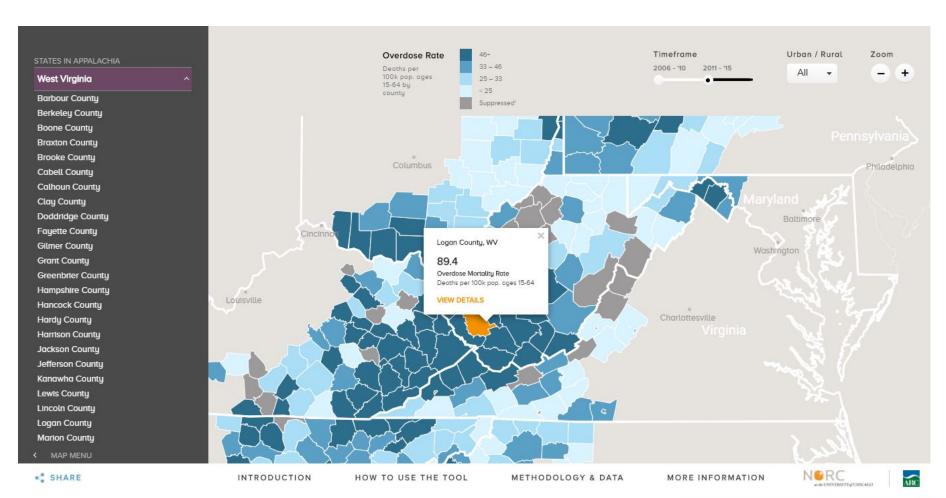








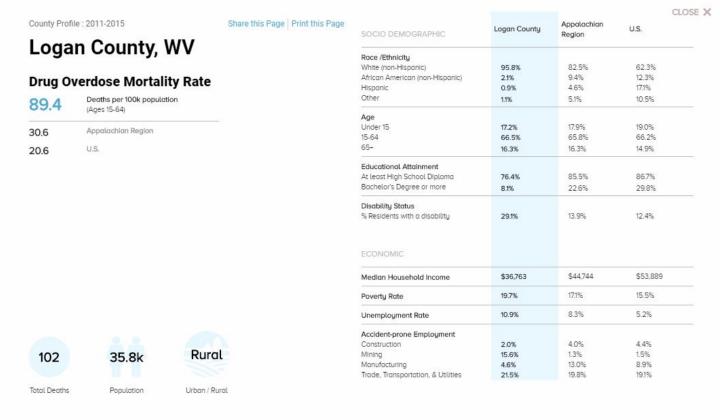
County Information and Fact Sheets





County Information and Fact Sheets









A Shift of Focus

Challenges and **Deficits**



Assets and Capacities



Opportunities for Action



Change Agents Across Sectors

Residents

Schools and Post-Secondary Institutions

Faith-Based Organizations

Cooperative Extension

Planning and Development

Healthcare and Public Health

Employers

Community-Based Organizations

Public Libraries

Transportation

Local
Government
and Public
Safety

Local Media

The Walsh Center for Rural Health Analysis

Sample Project Recommendations

Foster Cross-Sector Collaboration

Cross-sector collaboration is often an existing asset in rural communities, which can be supported and expanded.

Adapt Funding Strategies to Support Rural Communities

Adapt funding strategies and grant structures to address rural barriers to participation in grant programs.

Build Relationships and Trust

Cultural assets highlight the importance of rural residents feeling ownership over solutions to rural challenges, and building long-term, meaningful relationships with communities.



Sample Project Recommendations

Engage with Regional/Local Intermediaries

Regional and local organizations have a better understanding of local culture, past experience, and assets.

Consider Rural Communities as Program Sites

Rural communities are well suited to pilot efforts to improve health and equity – programs can be tested on a smaller scale with fewer confounding factors.

Develop Rural-Specific Communications and Messaging

It is critical to consider the specific audience, choose an appropriate messenger, and tie messages to important cultural assets.



Recent CDC Rural Health RFPs

- Exploring the Challenges in Diagnosis and Treatment of Traumatic Brain Injury (TBI) in Rural Areas
- Research Grants for the Primary or Secondary Prevention of Opioid Overdose



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Thank You!



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