Growing up rural: An overview of children's health status in rural America

Janice C. Probst, PhD

Director

South Carolina Rural Health Research Center December, 2011



Rural Health Research Center



At the Heart of Public Health Policy

The teaser

- Some children have to make do with less:
 - Fewer resources
 - Fewer health care providers
- Which leads to different outcomes



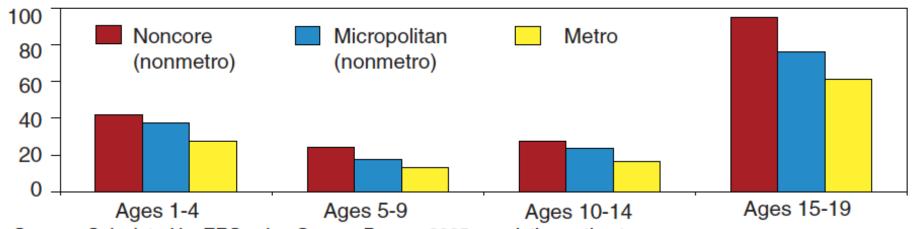


What we wish to end:

Rural children are more likely to die

Child mortality rates by age group and geographic area

Deaths per 100,000 children



Source: Calculated by ERS using Census Bureau 2005 population estimates.

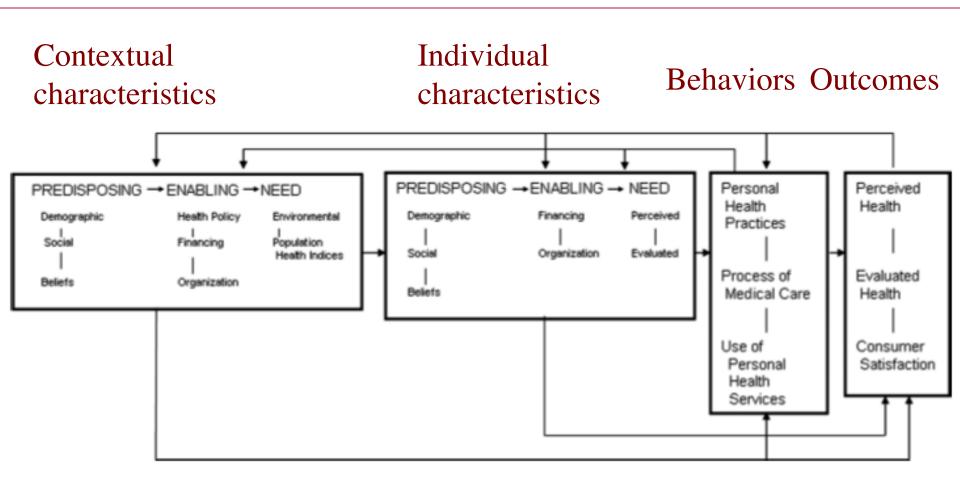
Rural America at a Glance, 2008 edition, ERS/USDA.



South Carolina
Rural Health Research Center



Conceptually: Andersen





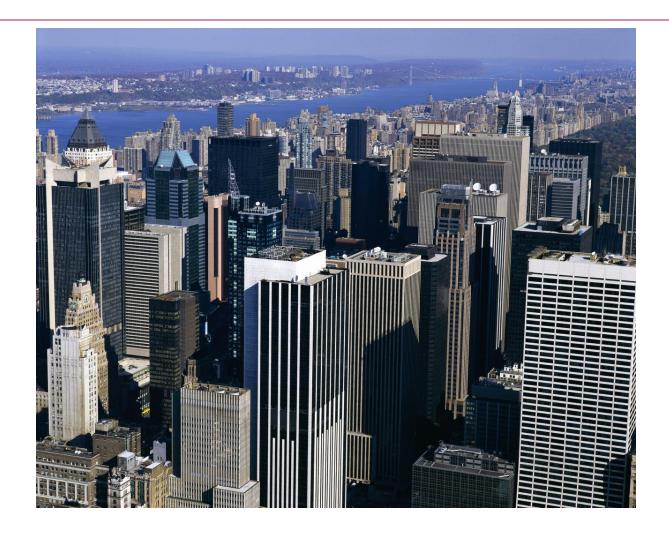






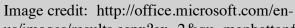
Not rural: New York County, NY

Manhattan:













Rural: Loving County, TX

Loving County:

0.1 person per square mile

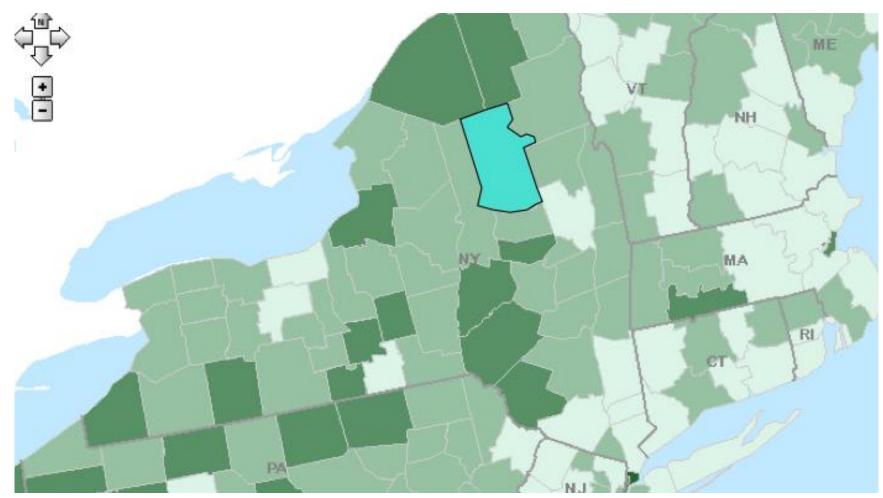








Also rural: Hamilton County, NY









Definitions – What is rural, anyway?

Rural:

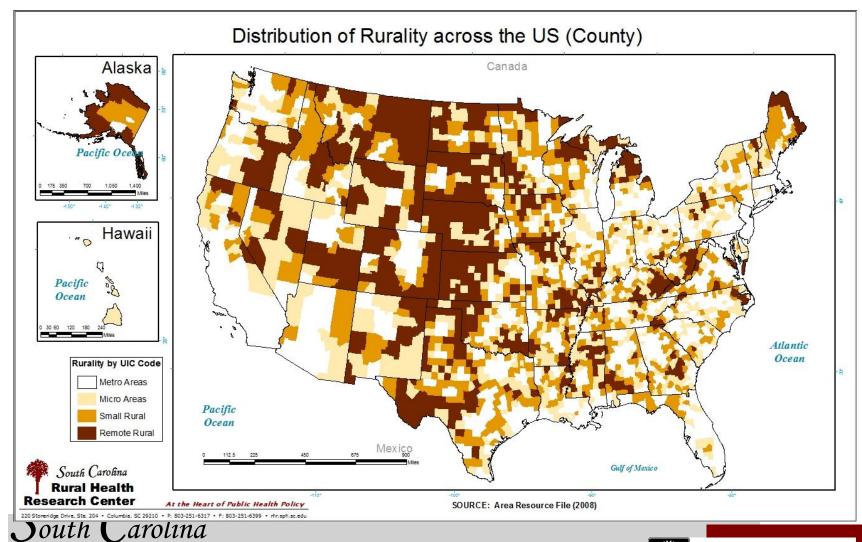
- Multiple definitions:
 - By county
 - By Census tract
 - By ZIP Code
- Multiple grades of "rural"
 - "Micropolitan"
 - Frontier
- In today's presentation, principally defined as residence in a non-metropolitan county.







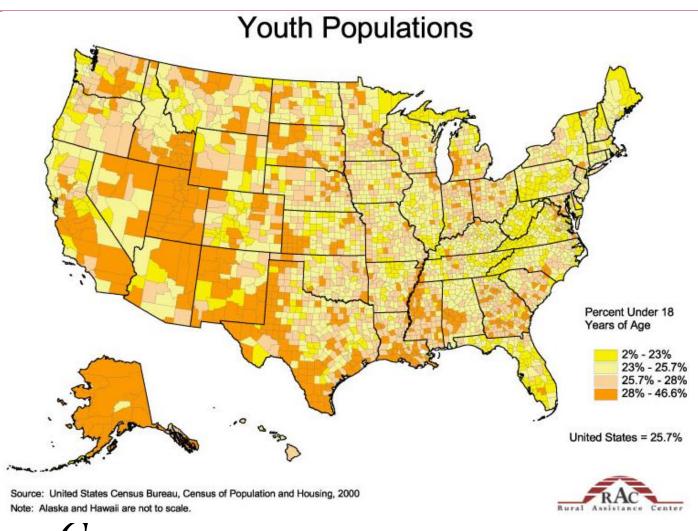
Rural America







Children in America

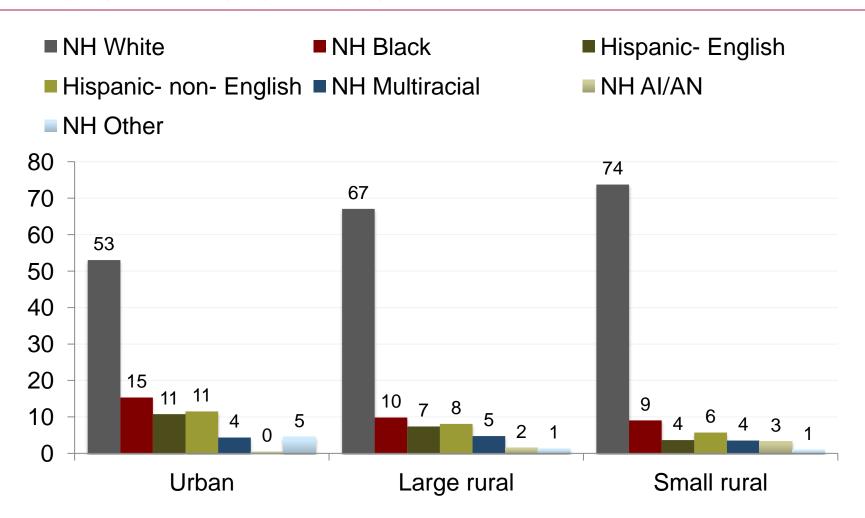








Rural counties have proportionately more white children



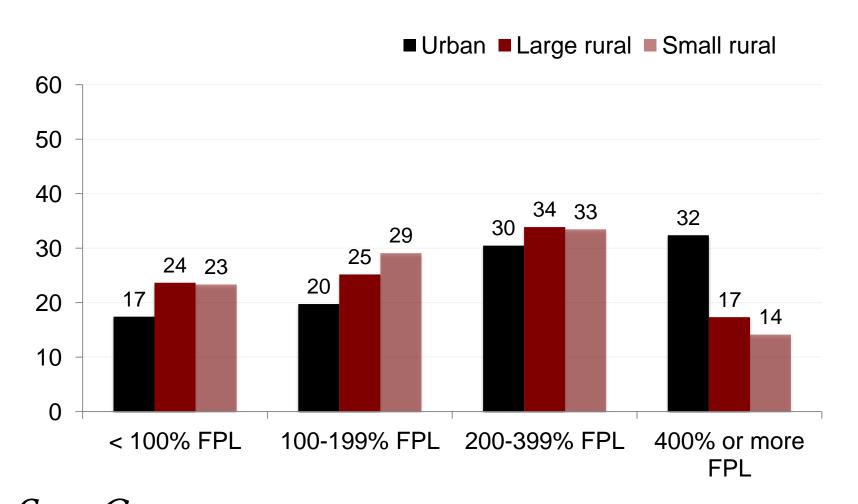




Source: NSCH, 2007



Rural families more likely to be poor





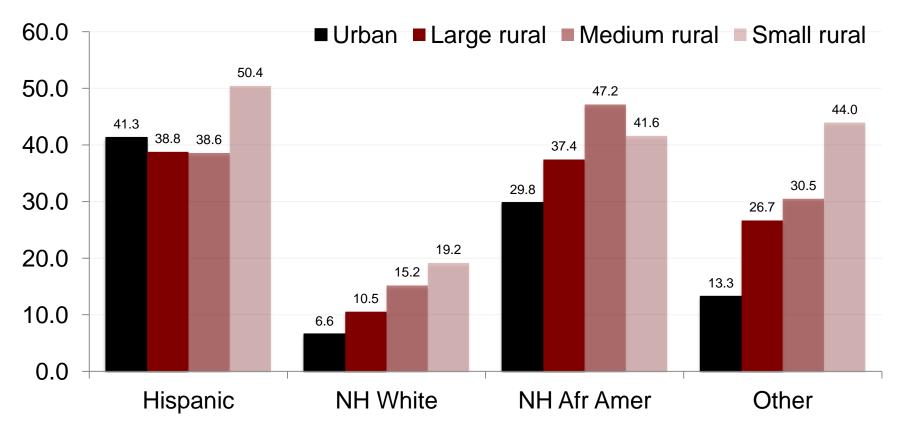
South Carolina

Source: NSCH, 2007

SOUTH CAROLINA.

Rural minority families in particular

Percent families living below the Federal Poverty Line, 2003 NSCH



Source: Author's analysis, 2003 NSCH

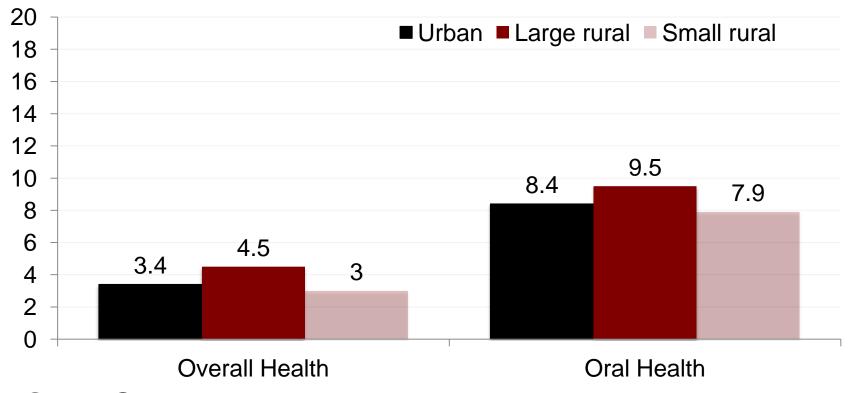






Similar health status

Percent of children whose health status, oral health, were described as "fair" or "poor"



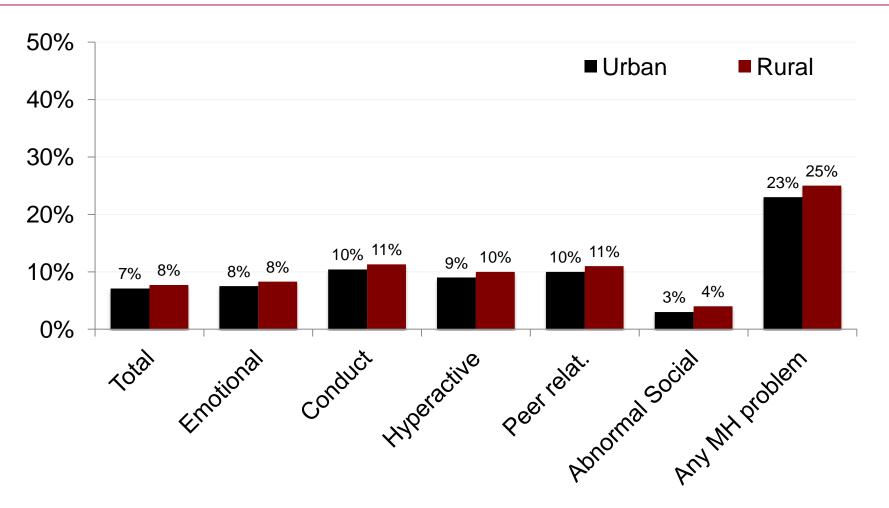


South Carolina Source: NSCH, 2007

Rural Health Research Center



Similar rates for emotional problems



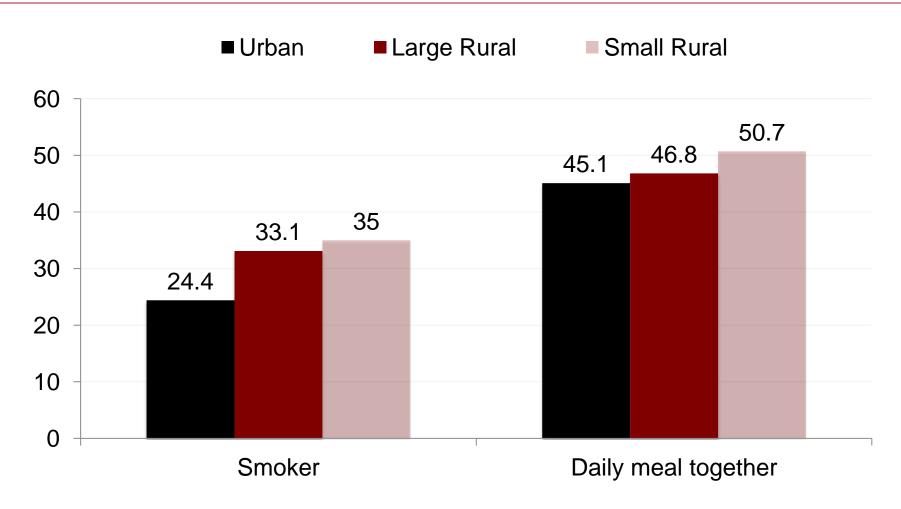


South Carolina Source: Moore, Mink et al 2005

Rural Health Research Center



Mixed picture for home risks







Source: NSCH, 2007

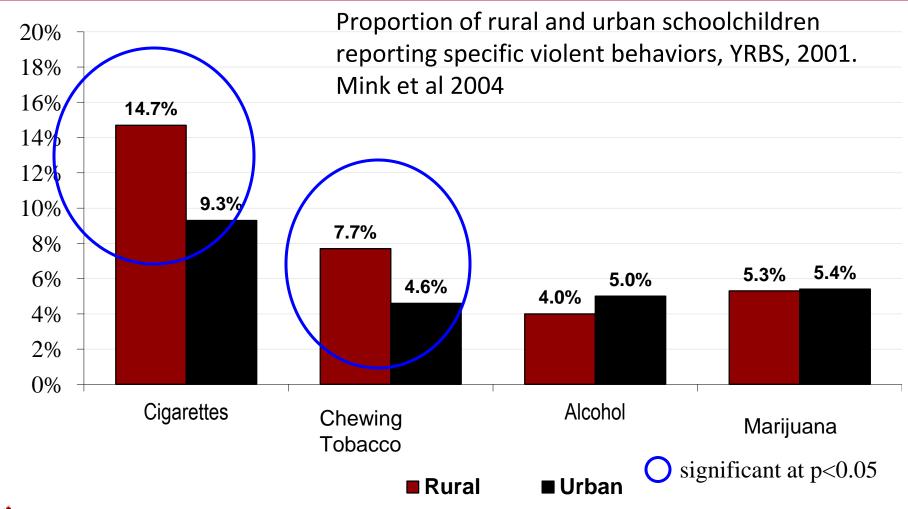




At the Heart of Public Health Policy



Drug Use at School







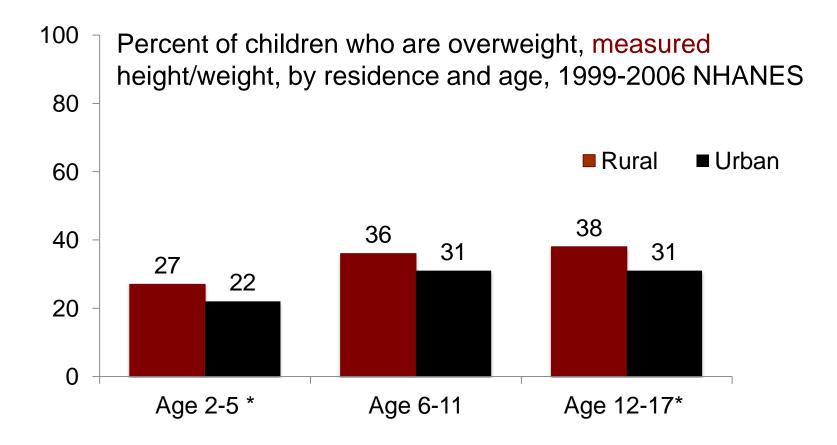


Weight paradox

- Rural children more likely to be overweight,
 obese
- Rural children less likely to be physically inactive



Measured: rural kids heavier



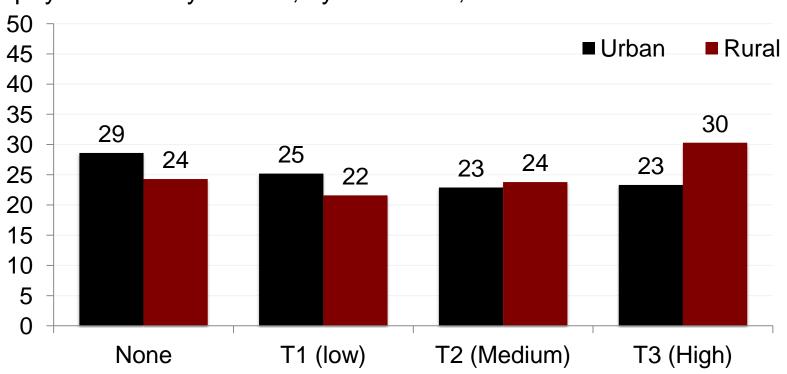






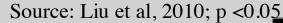
But rural kids still more active

Percent of girls aged 12-19 years old and corresponding physical activity terciles, by residence, 1999-2006 NHANES

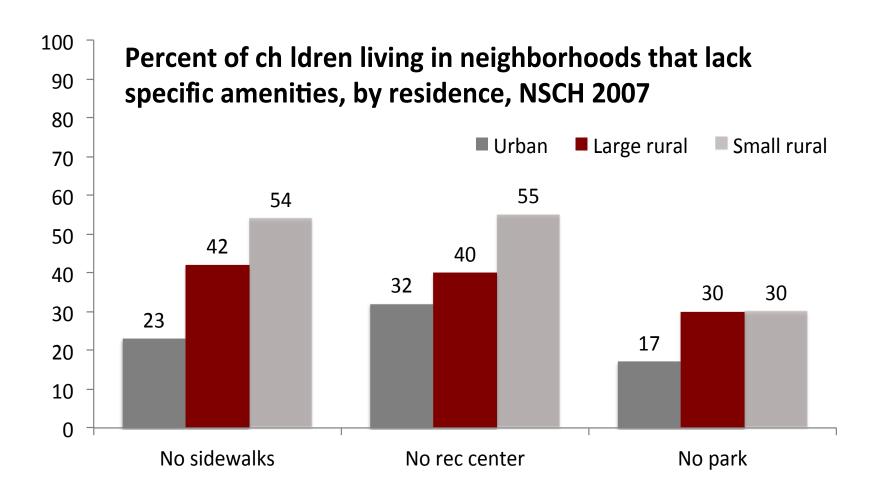








Physical activity barriers





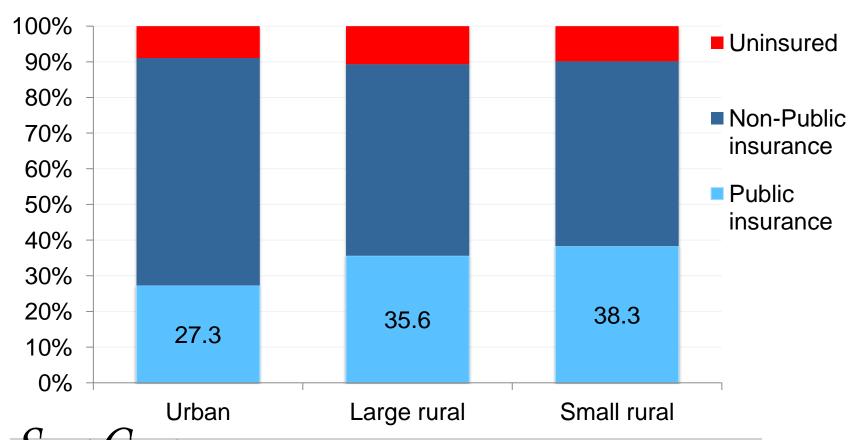
South Carolina

Source: NSCH, 2007



Access to care

Health insurance source among children, by residence, 2007

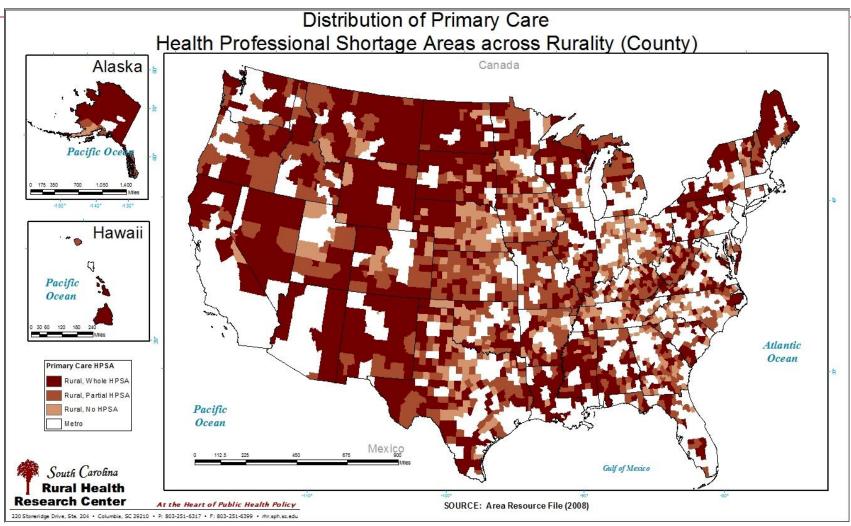




South Carolina
Rural Health Research Center



Rural areas often lack providers



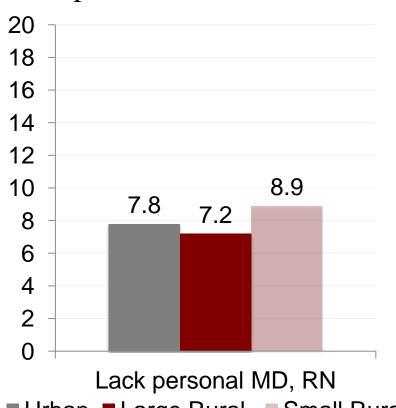


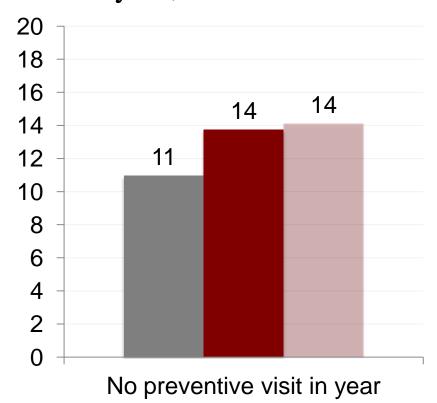




Access reported, but less preventive care

Percent of children who lack a personal provider, made no preventive medical visits in the last year, 2007 NSCH









Conclusions

- Rural children are not inherently different from other children
- Differing economic and physical contexts have adverse effects among rural children
- Research and interventions need to address the unique context of rural children



Useful web sites:

- http://rhr.sph.sc.edu/index.php
- http://childhealthdata.org/learn/NSCH
- http://www.ers.usda.gov/briefing/rurality/
- http://www.ers.usda.gov/foodatlas/
- http://www.rupri.org/
- http://www.raconline.org/
- http://www.hrsa.gov/ruralhealth/





SCRHRC Reports on Children

- Diet, Physical Activity, and Sedentary Behaviors as Risk Factors for Childhood
 Obesity: An Urban and Rural Comparison. November 23, 2010
- Dental Health and Access to Care among Rural Children: A National and State
 Portrait. September 20, 2008
- Overweight and Physical Inactivity among Rural Children Aged 10-17: A National and State Portrait. May 2007
- Early Alcohol Use, Rural Residence, and Adulthood Employment. June 2006
- Trends in Uninsurance among Rural Minority Children. June 2006
- Mental Health Risk Factors, Unmet Needs, and Provider Availability for Rural Children. September 2005
- Poverty, Stress, and Violent Disagreements in the Home among Rural Families.
 August 2005
- <u>Violence and Rural Teens: Teen Violence, Drug Use, and School-Based Prevention</u>
 <u>Services in Rural America</u>. March 2005
- Development of a Methodology for Assessing the Effect of a Lay Home Visitation
 Program for Rural High-Risk Women and Infants. February 2004







Questions / Comments

Thanks!

Jan Probst (803) 251-6317 jprobst@sc.edu



