

Health Care Costs in Rural NC

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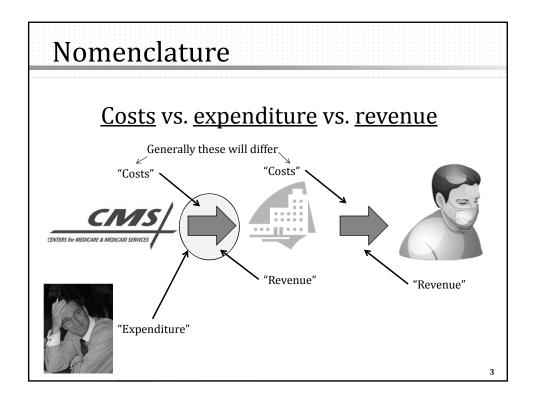
Disclosures:

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Outline

- Preliminaries
- Finances of Rural Hospitals, esp. CAH
- Expenditures/Variation
- Strategies



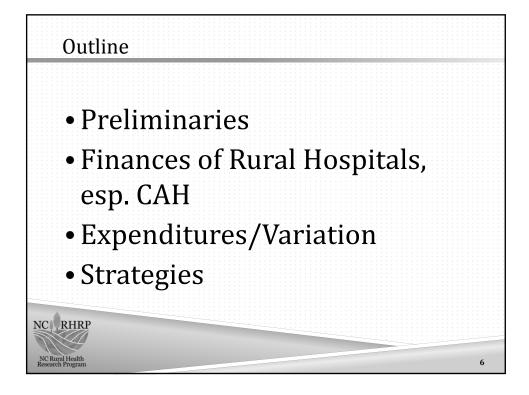


Rural, defined

- Assume audience familiar with metro/micro/noncore ("rural", "neither")
- Generally, "noncore" used as "rural"



Perspective Rural roots Wasn't born here but got here as quick as I could;-) Hometown hospital = small, rural in Michigan Dentist 27 minute drive Specialist - every other Monday, MRI 3rd Wednesday NC RHRP Funded by ORHP Analyze hospital finances



► Rural Hospital Programs

- In 1983, Medicare began reimbursing acute hospitals under the Prospective Payment System (PPS)
 - Largely built on "large teaching hospital" financing model (AC vs MC)
 - Small, rural hospitals negatively affected
- Panoply of specific designations designed to address negative impact
 - Medicare Dependent Hospital
 - Sole Community Hospital
 - Rural Referral Center
 - Low-Volume Hospital
 - Critical Access Hospital
- CAHs: supported by Medicare Rural Hospital Flexibility Program (Flex); motivated(?) by closures in 1990s





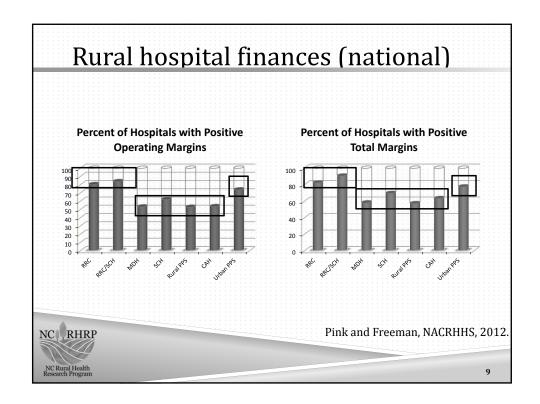
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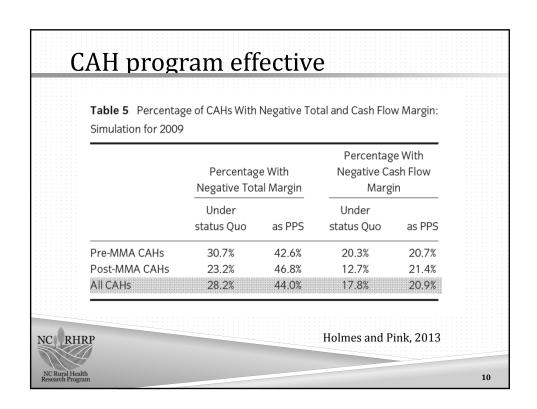
Rural hospital finances

- ► Nationally, CAHs are most financially fragile
 - ► Rural hospitals, generally, more financially fragile (except RRCs)



В

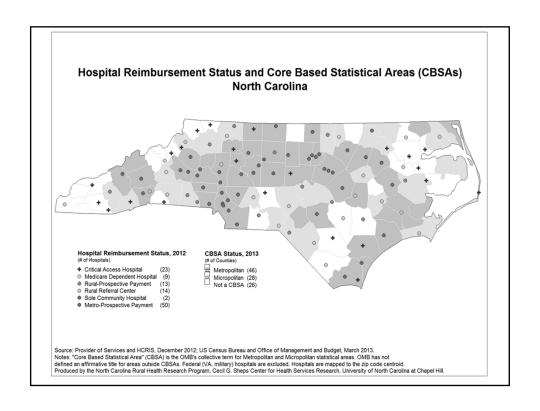


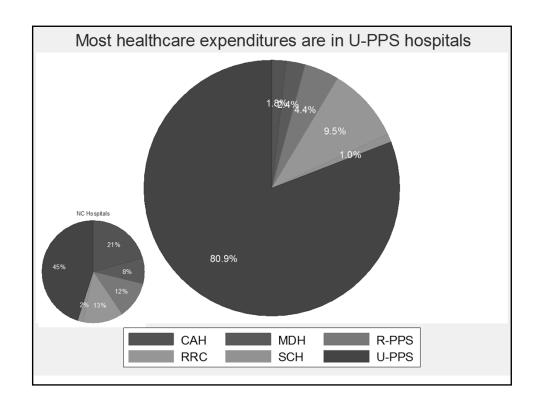


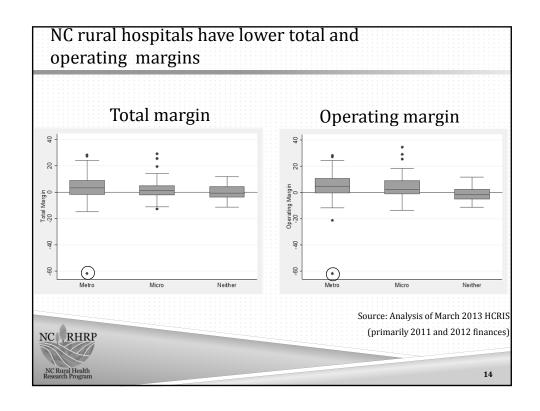
North Carolina Data

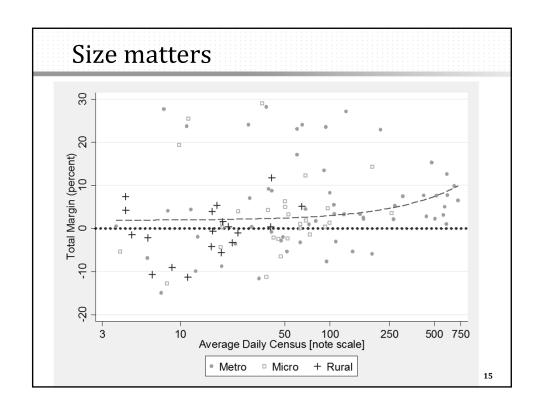
- ► Analysis of NC hospital finances follows
- ► Source: CMS (Cost reports, Provider of Service file)
- ► Focus on profitability: total margin and operating margin

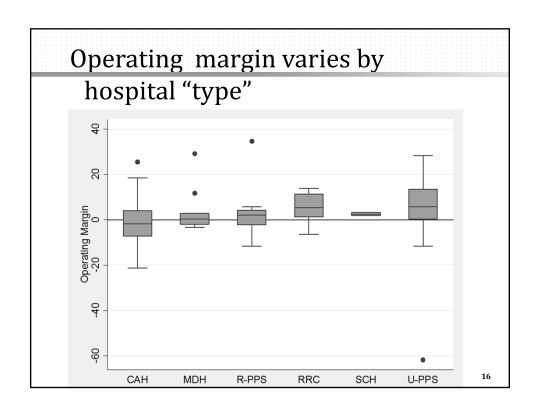


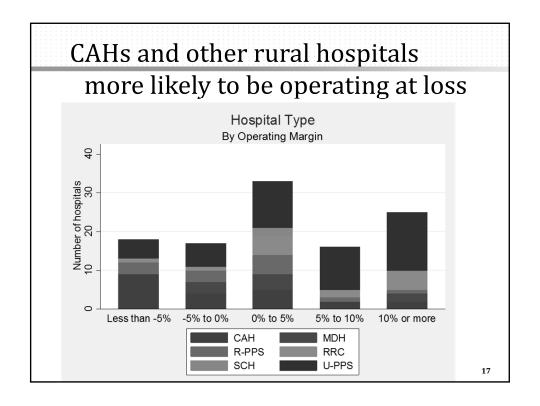












Importance of rural hospital viability

- ► In addition to community health benefits, rural hospitals major economic driver
 - ▶ Often largest or second largest employer
 - ► Hospital closure => bad economic effects
 - ▶4% decrease in PCI, unemployment + 1.4% if no alternative



Holmes et al, 2006

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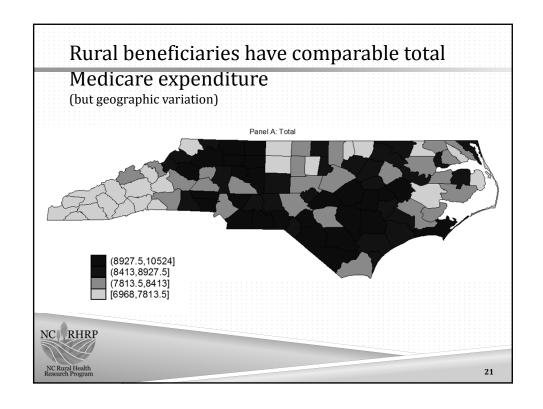


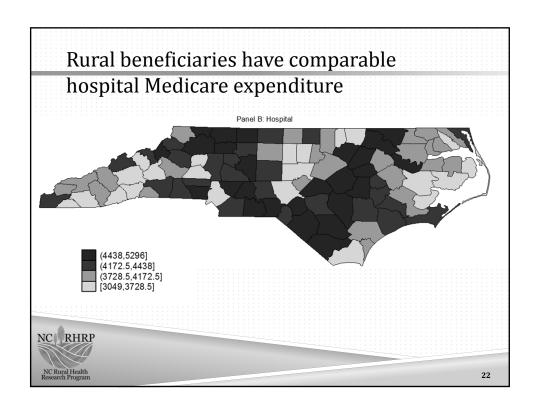
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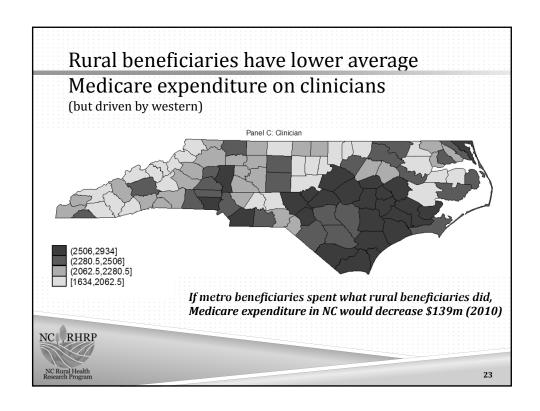
Expenditures

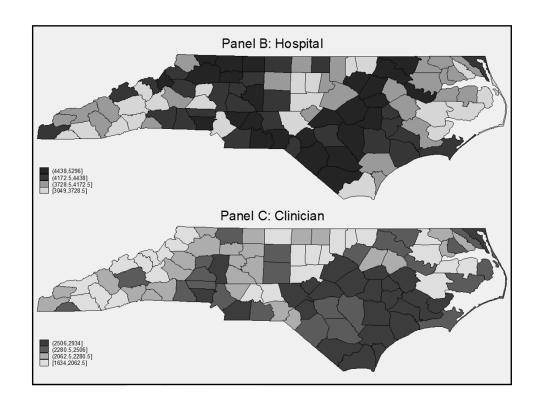
- Dartmouth: annual data on utilization by Medicare beneficiaries (2010)
 - Can be disaggregated by provider type
- County-level, by bene residence (20% sample)
 - nb: May be small number for some counties
- · Age-sex-race adjusted
 - Price-adjusted also avail. (urban have higher price)

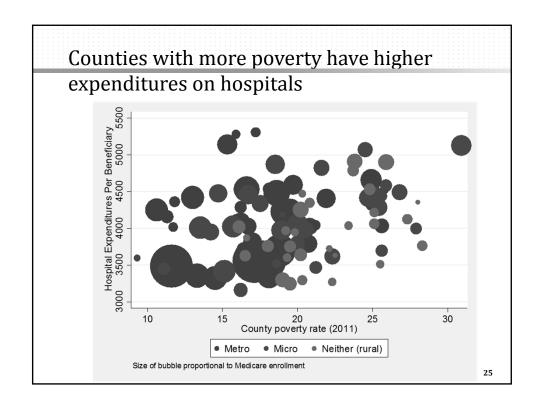


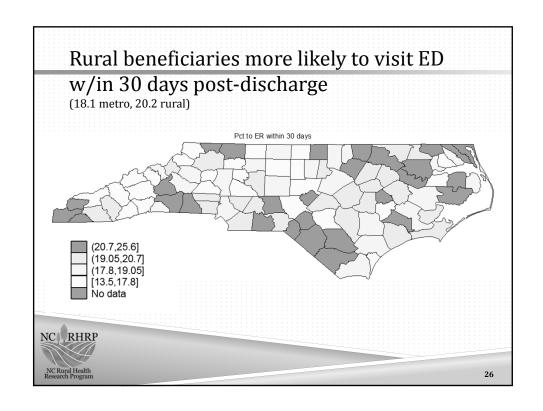


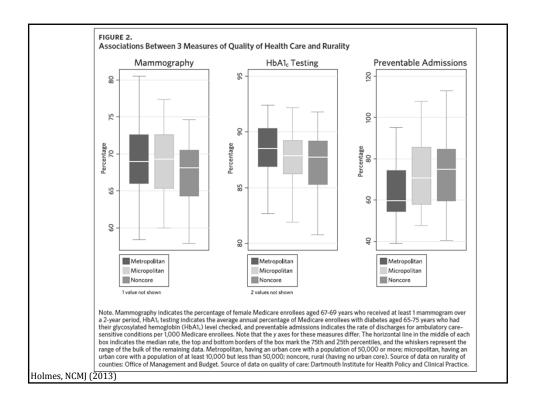


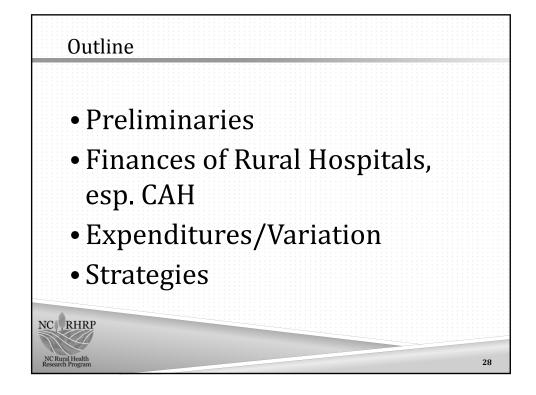








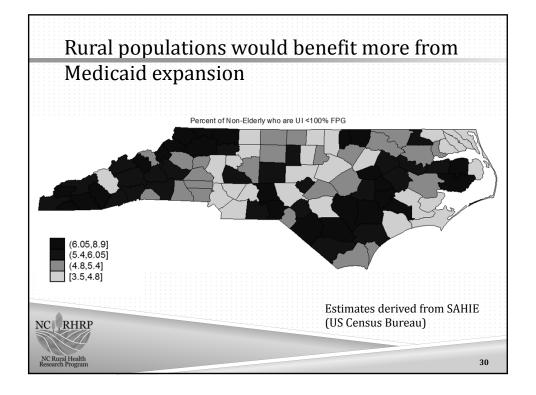




Improvement Strategies

- Collaboratives sharing best practices (e.g. LEAN – TDE & NCHA)
- Statewide investment in technical assistance/resources
 - Big data (Case study: Colorado)
- Reimbursement policy: rural hospitals more dependent on public insurance programs

Holmes and Pink 2011; Kirk, Holmes, and Pink 2012



Conclusion

- Rural hospitals more financially fragile, largely due to size and payer mix
- Some evidence of lower costs in rural areas, but quality may be lower for some types of complex care
 - Cheapest care is no care
- Strategies may be effective



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Randy Randolph provided excellent data analysis. George Pink and Victoria Freeman presented related work in 2012.

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