

## Meeting Maternal Needs in Rural America

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RURAL HEALTH

RESEARCH CENTER

### Childbirth in the U.S.

 Nearly 4 million people give birth every year



- Most common reason for hospitalization in U.S.
- Approximately half a million babies are born in rural areas each year
- Childbirth is costly!
  - Total costs of \$27 billion annually for hospital care (>7% of all hospital costs)
- Medicaid covers half of all births
  - More in rural areas



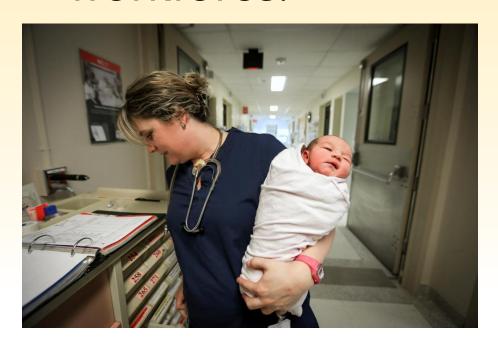
## **Access to Rural Maternity Care**

- Decline in access to obstetric services at rural hospitals
  - In 1985, 24% of rural counties lacked OB services; by 2002 this number had risen to 44%
  - Between 1985 and 2002, approximately 760 U.S. hospitals closed their OB services
- As of 2007, an estimated 5.8 million U.S. women lived in a rural county within an obstetrician
- Nearly 80% of women in the most rural counties do not have access to a local hospital with maternity care services



## What about Quality of Care?

 Among rural hospitals that do provide obstetric services, there a need for data on patterns of care, quality of care, and workforce.





# Overview: RHRC Studies on Rural Maternity Care

- Two examples of completed studies:
  - Rural Obstetric Workforce Challenges and Opportunities
  - Childbirth in Non-Local Hospitals Among Rural Women
- Current project: Rural Obstetric Unit and Hospital Closures and Maternal and Infant Health



## **Study: Obstetrics Workforce**



Who attends births in rural hospitals?

- What types and combinations of clinicians are delivering babies in rural hospitals?
- What is the relationship between hospital birth volume and staffing models?
- What staffing challenges are rural hospitals facing?



## **Key Findings**

- Hospitals with lower birth volume (< 240 births per year) are more likely to have family physicians and general surgeons attending deliveries, while those with a higher birth volume more frequently have obstetricians and midwives attending deliveries.
- General surgeons perform cesarean deliveries in 58.1 percent of lowest-volume (<110) hospitals, but in none of the high-volume (>460) hospitals surveyed.
- Workforce challenges reported by surveyed hospitals are related to their rural location and low birth volume.



## Study: Non-Local Childbirth

 What are the local hospital characteristics and maternal diagnoses present at childbirth that are associated with non-local childbirth for rural women?





#### **Study: Non-Local Childbirth**

## **Findings**

- About 75% of rural women gave birth at local hospitals
- More likely to deliver at nonlocal hospitals:
  - Rural women with preterm births and clinical complications
  - Rural women without local access to higher-acuity neonatal care
- Less likely: rural Medicaid beneficiaries
  - Indicates potential access challenge





# **Current Study: Rural Obstetric Unit and Hospital Closures**

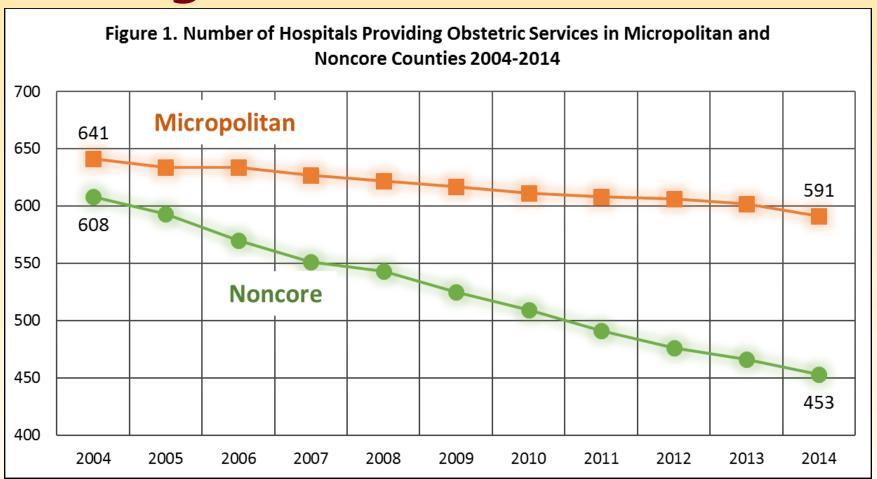
 What is the scope of obstetric unit and hospital closures resulting in loss of obstetric services in rural US counties between 2004-2014?





#### **Study: Obstetric Unit Closures**

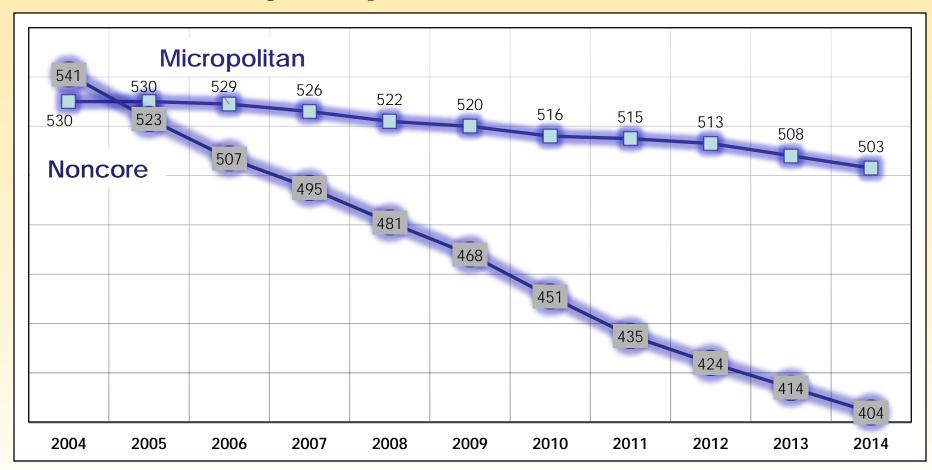
## **Findings**





#### **Study: Obstetric Unit Closures**

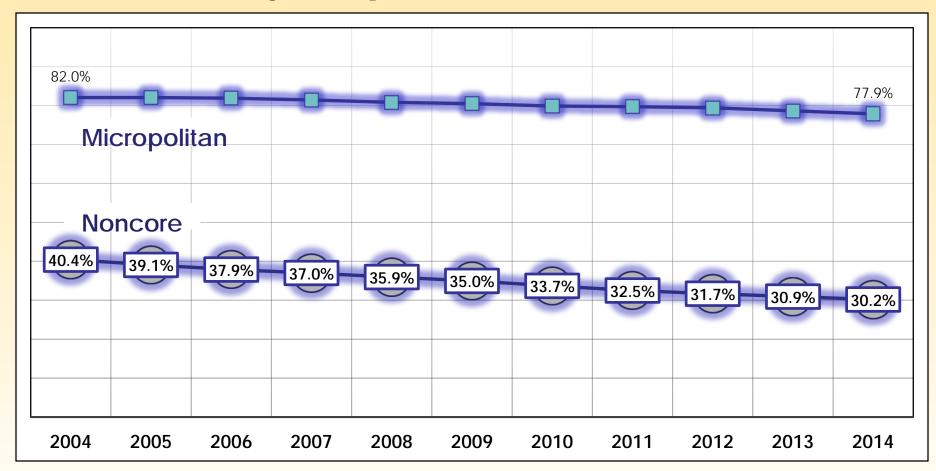
## Number of Micropolitan and Noncore Counties with In-County Hospital Obstetric Care 2004-2014





#### **Study: Obstetric Unit Closures**

## Percent of Micropolitan and Noncore Counties with In-County Hospital Obstetric Care 2004-2014





## **County Characteristics**

- Compared with counties with continuous obstetric services, counties with no obstetric services (never had, or had full closures between 2004-2014) have:
  - Lower median household income
  - Higher poverty rates
  - Higher rates of uninsurance
  - Greater racial diversity



## Stay Tuned...

- Results coming soon:
  - State-level analyses
  - More detailed ocio-demographic correlates of closures
  - Impact of closure on use of maternity care services and maternal and infant health outcomes



## A New Policy Context?

- End of the Affordable Care Act?
- It's likely that
  - "Value" will be increasingly important in policy decisions
  - People will keep giving birth
  - Costs of childbirth will be shared by families, employers, and – importantly - taxpayers





### The Goal for Rural Communities

- Workable solutions to the challenges that rural communities face to ensure
  - Maternity care access
  - Maternity care quality





### **Thank You!**

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