

# **Creating Community Involvement to Conduct a Perinatal Periods of Risk Assessment**

**Rita Beam, MS, RN  
Nurse Manager of Perinatal Services**



## **The Problem**

- The mortality rate among African American/ Black infants residing in Aurora, Colorado is significantly higher compared to the infant mortality rate for of other racial and ethnic groups within Aurora and throughout Colorado

## **First Steps**

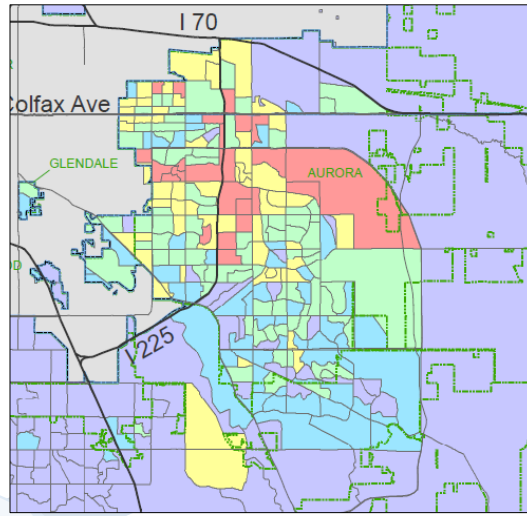
- Analyzed Black - White infant mortality data
- Presented data indicating the health disparity to the Healthy Start (HS) Consortium
- Determined to be the focus of the HS Local Action Plan

## **Target Population and Geographic Area was Defined**

- Identified target population in the Healthy Start service area in Aurora, CO
- Reviewed Pregnancy Risk Assessment Monitoring System (PRAMS) oversampling of the Aurora African American population
- Reviewed Arapahoe County infant mortality rate (IMR)

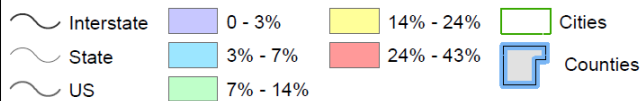
## Percent African American Population in Arapahoe County by Block-Group

Based on U.S. Census 2000 Summary File 3 Block-Group Data



GIS 6/7/2006

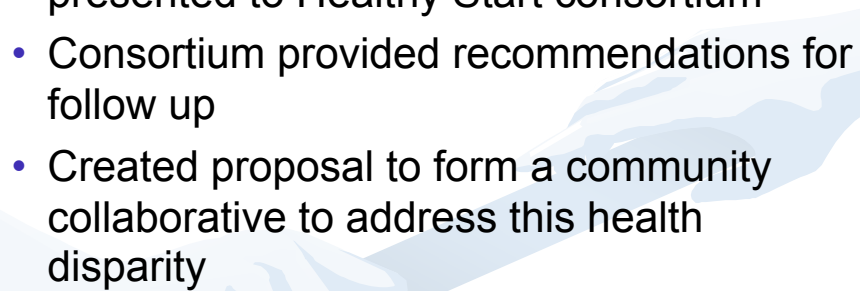
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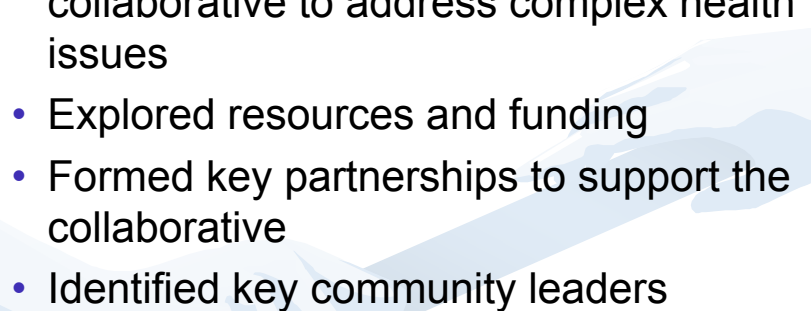
## Action Steps

- Consortium referred the problem to a small task force
- Task force members
  - Healthy Start Program Coordinator
  - Local public health perinatal nurse manager
  - March of Dimes
  - State public health prenatal consultant
- Collected qualitative data from key community informants

## Action Steps

- Analyzed key informant interviews and presented to Healthy Start consortium
  - Consortium provided recommendations for follow up
  - Created proposal to form a community collaborative to address this health disparity
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## Community Collaboratives

- Researched the efficacy of a community collaborative to address complex health issues
  - Explored resources and funding
  - Formed key partnerships to support the collaborative
  - Identified key community leaders
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## **Healthier Beginnings for African-American/Black Communities: An Aurora Healthy Baby Initiative**

- Established to address infant morbidity and mortality disparities among African American/ Black families
- Community partnerships
  - City of Aurora
  - Metro Center Provider Network's Healthy Start Project
  - March of Dimes
  - Tri-County Health Department (TCHD)

## **2007 – 2009 Progress to Date**

- Meetings began June 2007
  - Monthly
- Engaged professional facilitator
- Awarded March of Dimes grant
  - REACHUS
- Awarded MCH innovative health grant
  - PPOR process
  - Website
  - Program evaluation

## Website

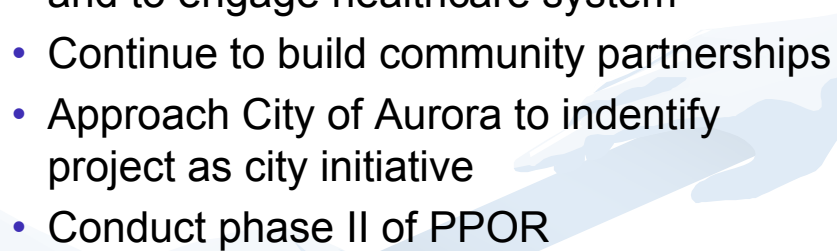


[www.aurorahealthybabies.org](http://www.aurorahealthybabies.org)

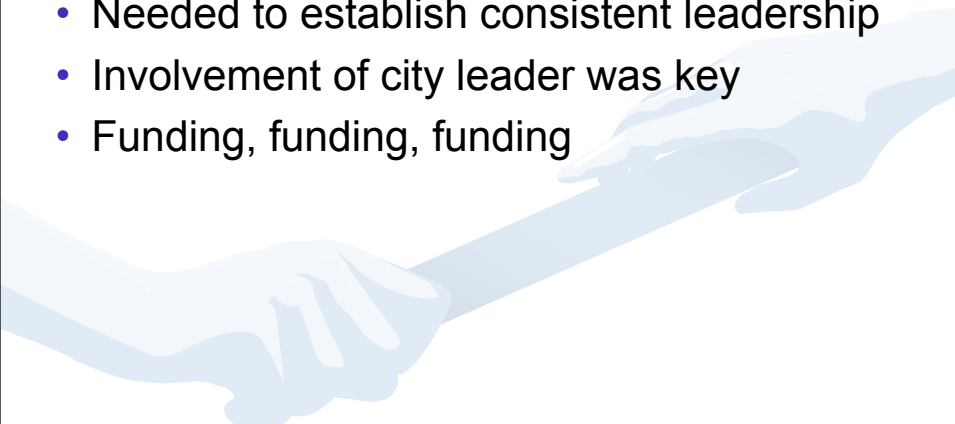
## 2007 – 2009 Progress to Date

- Applied and invited to participate in National Action Learning Collaborative

## Next Steps

- Funding for both outreach to community and to engage healthcare system
  - Continue to build community partnerships
  - Approach City of Aurora to identify project as city initiative
  - Conduct phase II of PPOR
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## Lessons Learned

- Needed a champion from community
  - Needed to establish consistent leadership
  - Involvement of city leader was key
  - Funding, funding, funding
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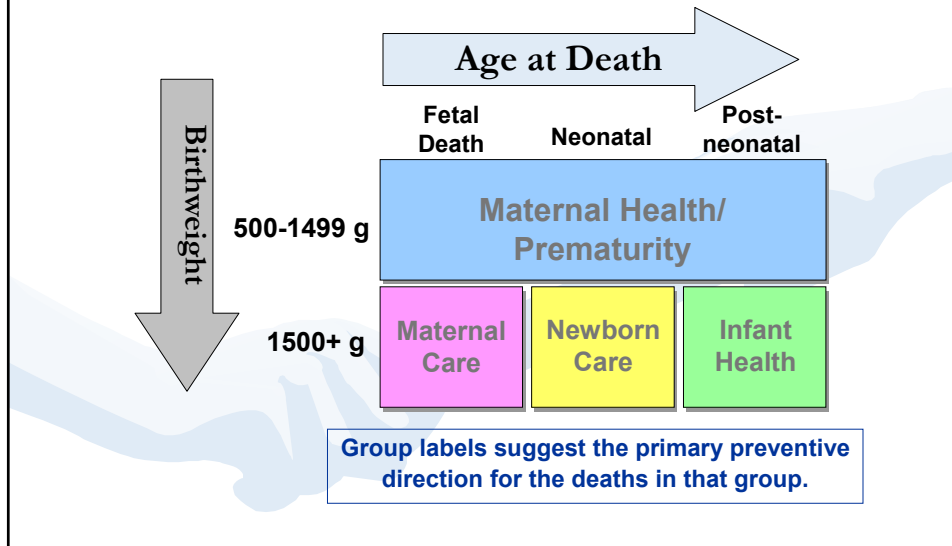
## Acknowledgements

- Barb Stone, MPH, Health Planner, TCHD
- Tiffany White, PhD, MPH, University of Colorado
- Allison Hawkes, MD, MS, Planning, Evaluation and GIS Manager, TCHD
- Richard L. Vogt, MD, Executive Director, TCHD

## Questions?

Rita Beam, MS, RN  
Nurse Manager, Perinatal Services  
Tri-County Health Department  
[rbeam@tchd.org](mailto:rbeam@tchd.org)  
303-783-7148

## Perinatal Periods of Risk (PPOR) Phase I-Fetal Infant Mortality "Map"



## Group-Specific Mortality Rates

$$\frac{\text{Number of feto-infant deaths}}{\text{Number of live births \& fetal deaths}} \times 1000$$

- Same denominator used for each group.
- Group rates will add together to equal the overall feto-infant mortality rate.

## Building the PPOR “Map”

- Use **linked** infant birth-death and fetal death files
- Include fetal deaths
- Do NOT include:
  - Fetal deaths that occur **<24 weeks gestation**
  - Fetal deaths weighing **< 500 grams**
  - Live births weighing **< 500 grams**
  - Spontaneous and induced **abortions**

## Study Population

- **Live births and infant deaths 2003-2007\***
  - birth weight >500 grams
- **Fetal deaths 2003-2007\***
  - Gestational age  $\geq$  24 weeks
  - birth weight >500 grams
- **Reside within the city limits of Aurora, Colorado**
- **Born to non-Hispanic Black women**

\* Data Source: Health Statistics Section, Colorado Department of Public Health and Environment

## Reference Group

- **External**
  - Residents of Colorado
  - Years 2003 to 2007
  - Non-Hispanic white mothers
  - 20+ years of age
  - 13+ years of education

## Distribution and Rates of Feto-Infant Mortality

All Races, Aurora, CO, 2003-2007

	Fetal Death	Neonatal	Post-neonatal
500-1499 g	Maternal Health/ Prematurity 3.2 (n=88)		
1500+ g	Maternal Care 1.9 (n=52)	Newborn Care 1.0 (n=28)	Infant Health 1.4 (n=38)

206 fetal and infant deaths

27322 live births and fetal deaths

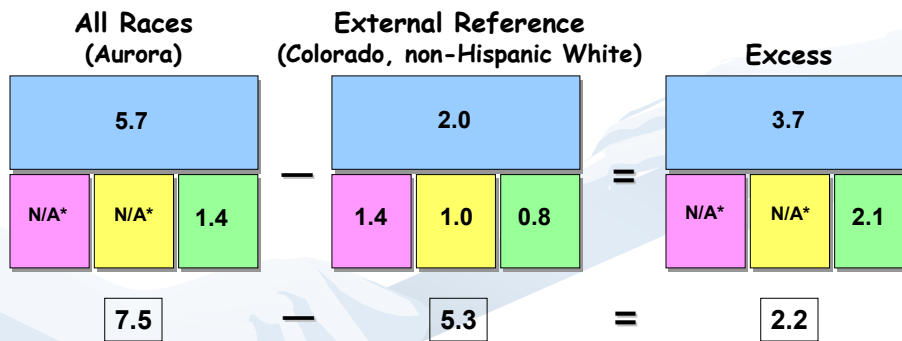
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Total feto-infant mortality rate: 7.5

Data Source: 2003-2007 Linked Birth-Death and Fetal Death records, prepared by the Colorado Department of Health and Environment, Health Statistics Section.

## Excess Feto-Infant Mortality Rate

Aurora, CO vs. External Reference Group, 2003-2007



\*Insufficient Numbers

Data Source: 2003-2007 Linked Birth-Death and Fetal Death records, prepared by the Colorado Department of Health and Environment, Vital Statistics.

## Overall and Excess Feto-Infant Mortality Rates, Aurora, CO 2003-2007

	Feto-Infant Mortality Rates				
	Maternal Health/ Prematurity	Maternal Care	Newborn Care	Infant Health	Overall
External Reference*	2.0	1.4	1.0	0.8	5.3
All races	5.7	1.7	1.0	2.9	11.2
All races, Excess Rate	1.2	0.5	0	0.6	2.2
All races, Excess Number	32.8	13.6	0	16.4	60.1

\*Colorado, non-Hispanic White, 20+ years of age, 13+ years of education