



Infant Death in Service Planning Area (SPA)1 Antelope Valley

Cynthia Harding, M.P.H.

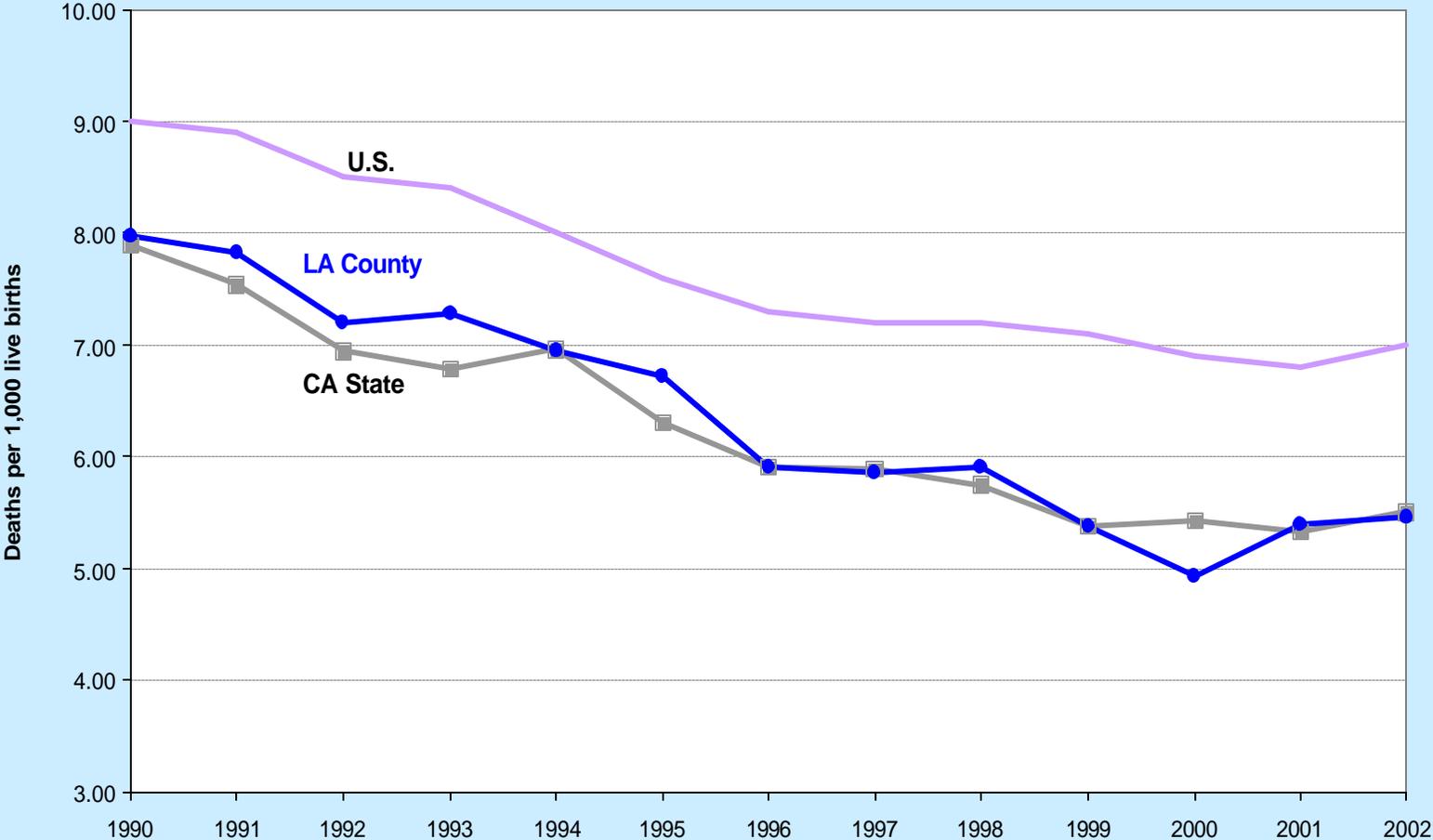
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Today's presentation:

- † Review data
- † Discuss Challenges
- † Present overview of MCAH Programs

Infant Death Rates* 1990-2002



*The infant death rate is defined as the total number of deaths per 1,000 live births

Source: California Department of Health Services, Center for Health Statistics, Vital Statistics, 1993 to 2002

Potential Factors for the Changes in the Infant Death Rates in the US

Between 1993 and 2002¹

- **10% increase in preterm rate² (from 11% to 12.1%)**
- **8% increase in low birthweight rate³ (from 7.2% to 7.8%)**

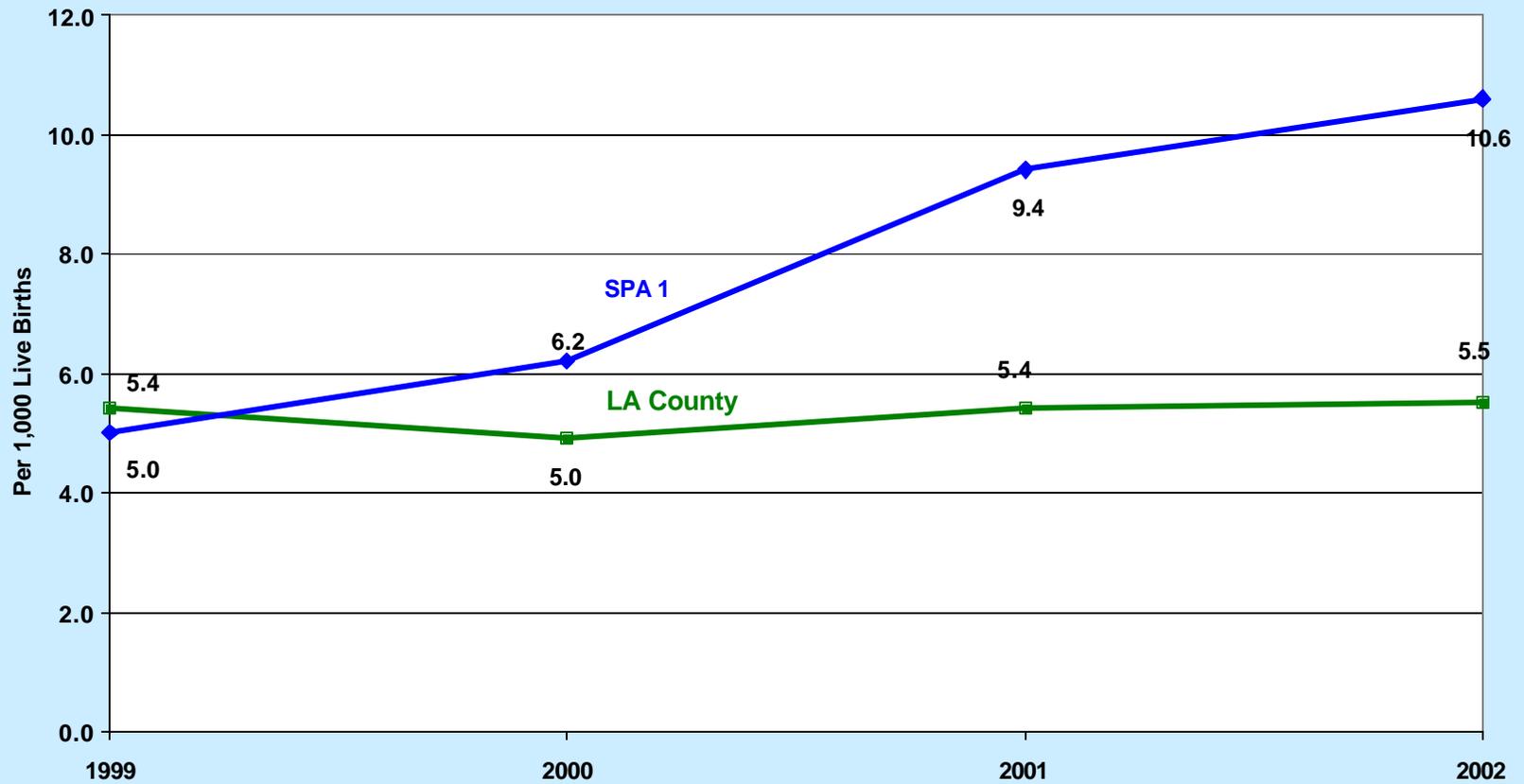
¹ Kochanek, K.D., Martin, J.A., National Center for Health Statistics – Health E-Stats – Supplemental Analysis of Recent Trends in Infant Mortality. 2004.

² Preterm rate: Births at less than 37 completed weeks of gestation per 100 live births.

³ Low birthweight rat: Births with weight at delivery of less than 2,500 grams per 100 live births

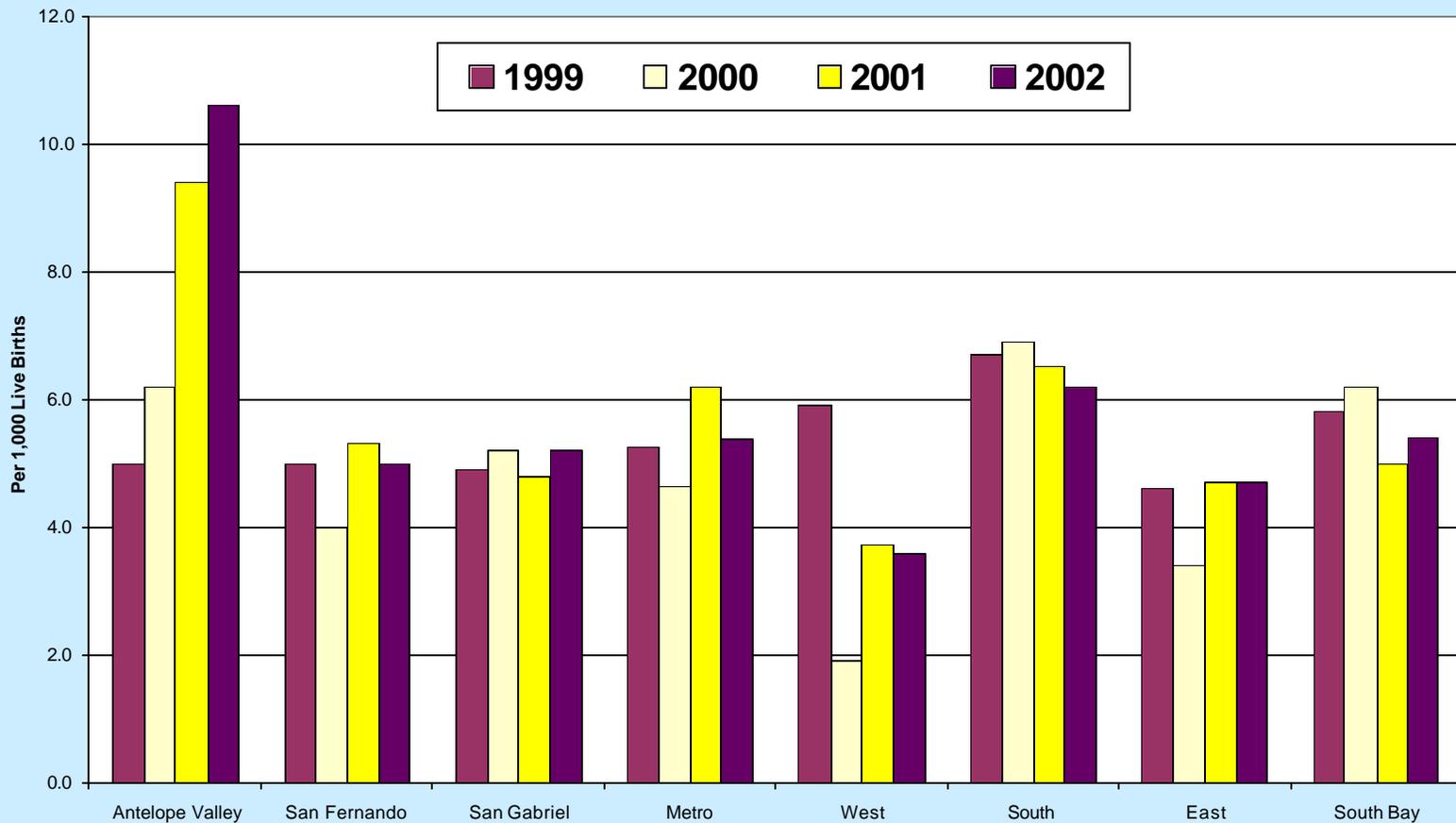
Infant Death Rates

SPA 1 vs. LA County 1999-2002



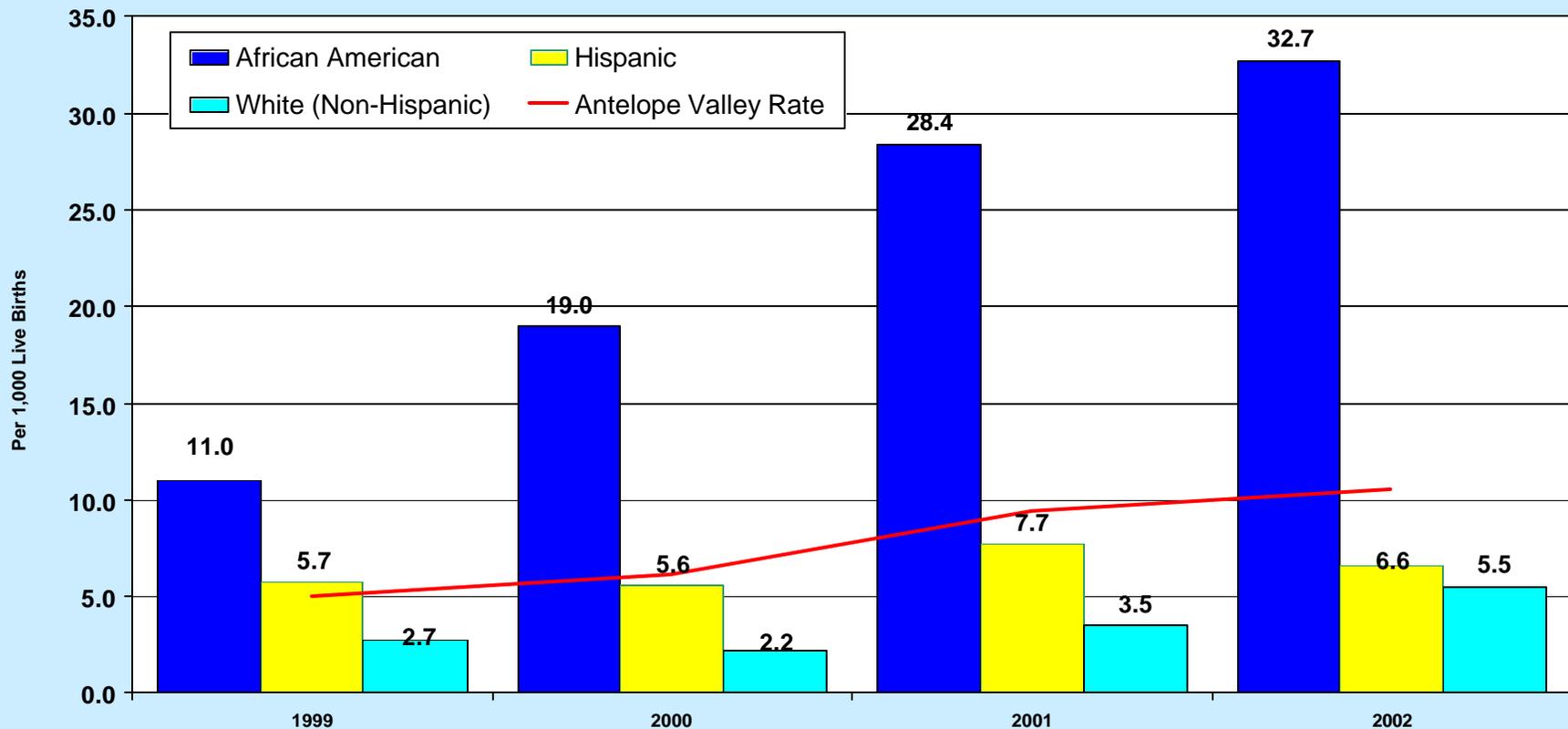
Source: California Department of Health Services, Center for Health Statistics, Vital Statistics, 1999 to 2002

Infant Death Rates By SPA, LA County, 1999-2002



Source: California Department of Health Services, Center for Health Statistics, Vital Statistics, 1998 to 2002

SPA 1 Infant Death Rates By Race/Ethnicity, 1999-2002



Source: California Department of Health Services, Center for Health Statistics, Vital Statistics, 1999 to 2002

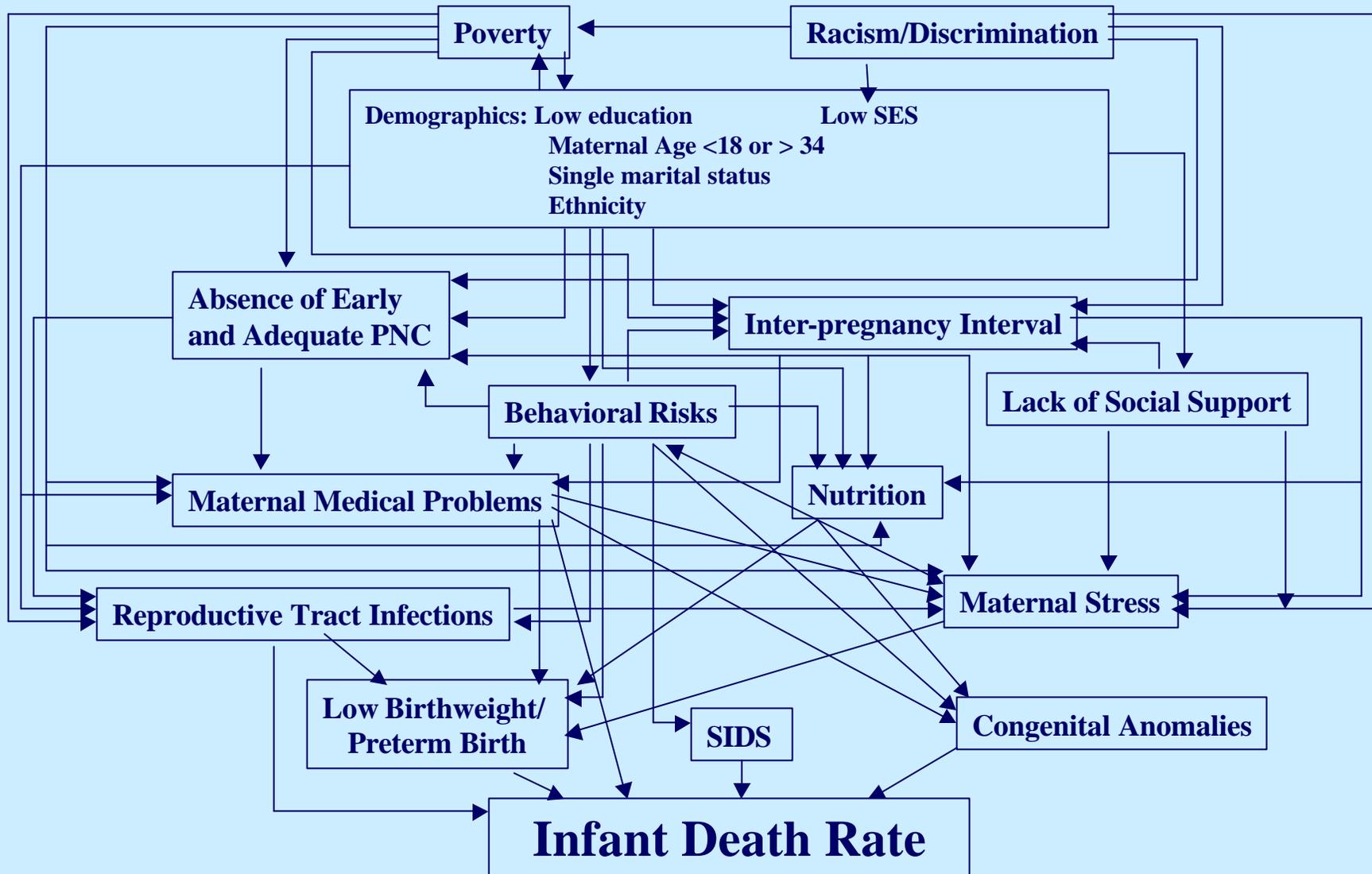
Fetal Deaths

Between 1999-2002:

- † Fetal death rates* in overall LA County remained stable at 5 per 1,000 births plus fetal deaths
- † The fetal death rate* in SPA 1 has been overall higher than LA County.
- † In 2002, SPA 1 along with SPA 6 had the highest fetal death rate (6.1/1000)
- † Fetal death rate for African American has been higher than other races in SPA 1. It increased from 7.8 to 9.6 per 1,000 births

* Fetal death rate: The number of fetal deaths of 20 weeks or more gestational age per 1,000 live births plus fetal deaths

The Proposed Casual Pathway of Infant Death



Causes of Death

Among the 27 African American infants born in 2002 in SPA 1:

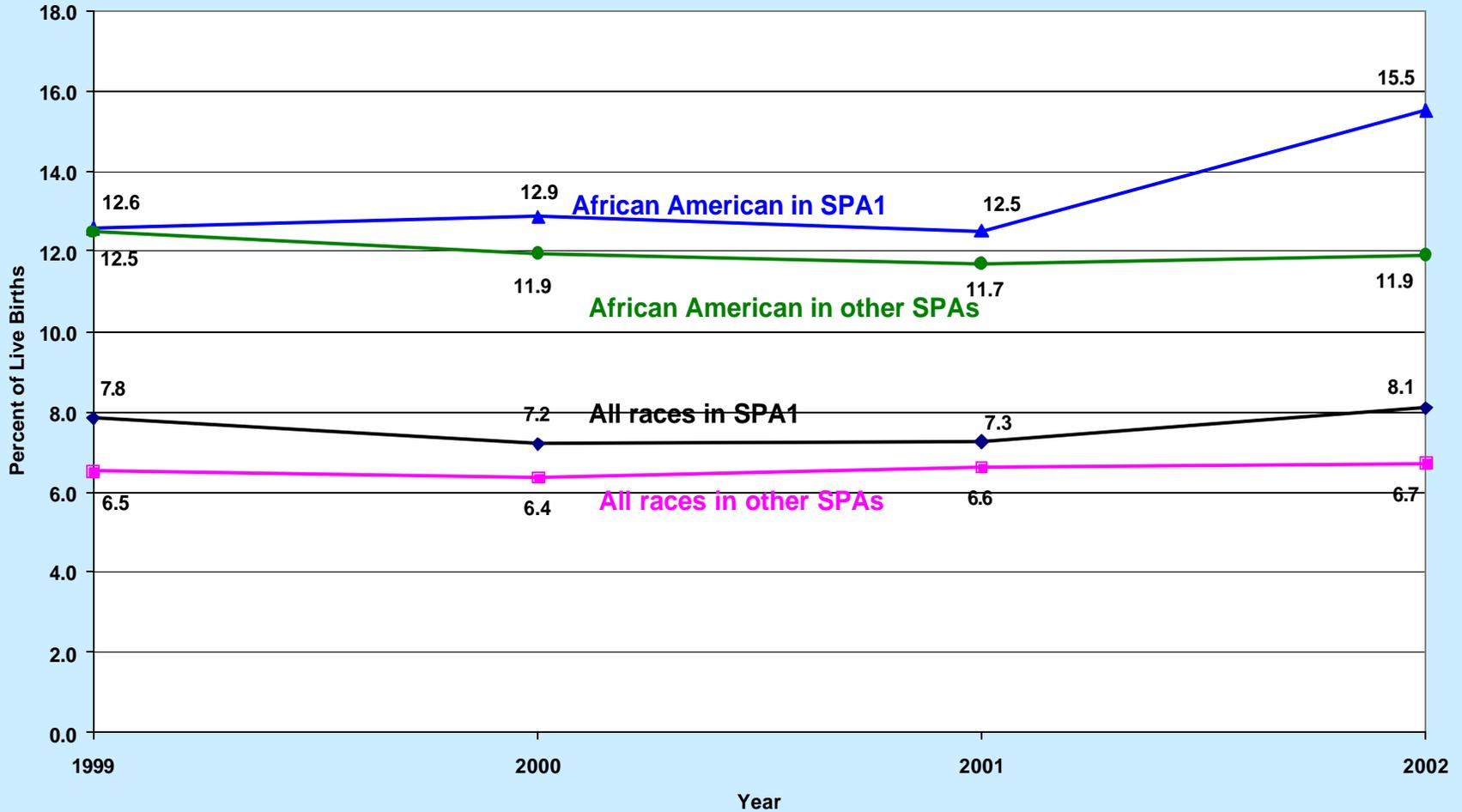
- † 41% of the deaths were disorders related to short gestation and low birthweight

Potential Factors for the Changes in the Infant Death Rates

In SPA 1, 1999-2002

- **3.8% increase in LBW rate for SPA 1
(from 7.8% to 8.1%)**
- **3.9% increase in preterm rate for SPA 1
(from 12.8% to 13.3%)**
- **23.0% increase in LBW rate for SPA 1 African American
infants (from 12.6% to 15.5%)**
- **17.7% increase in preterm rate for SPA1 African American
Infants (from 17.5% to 20.6%)**

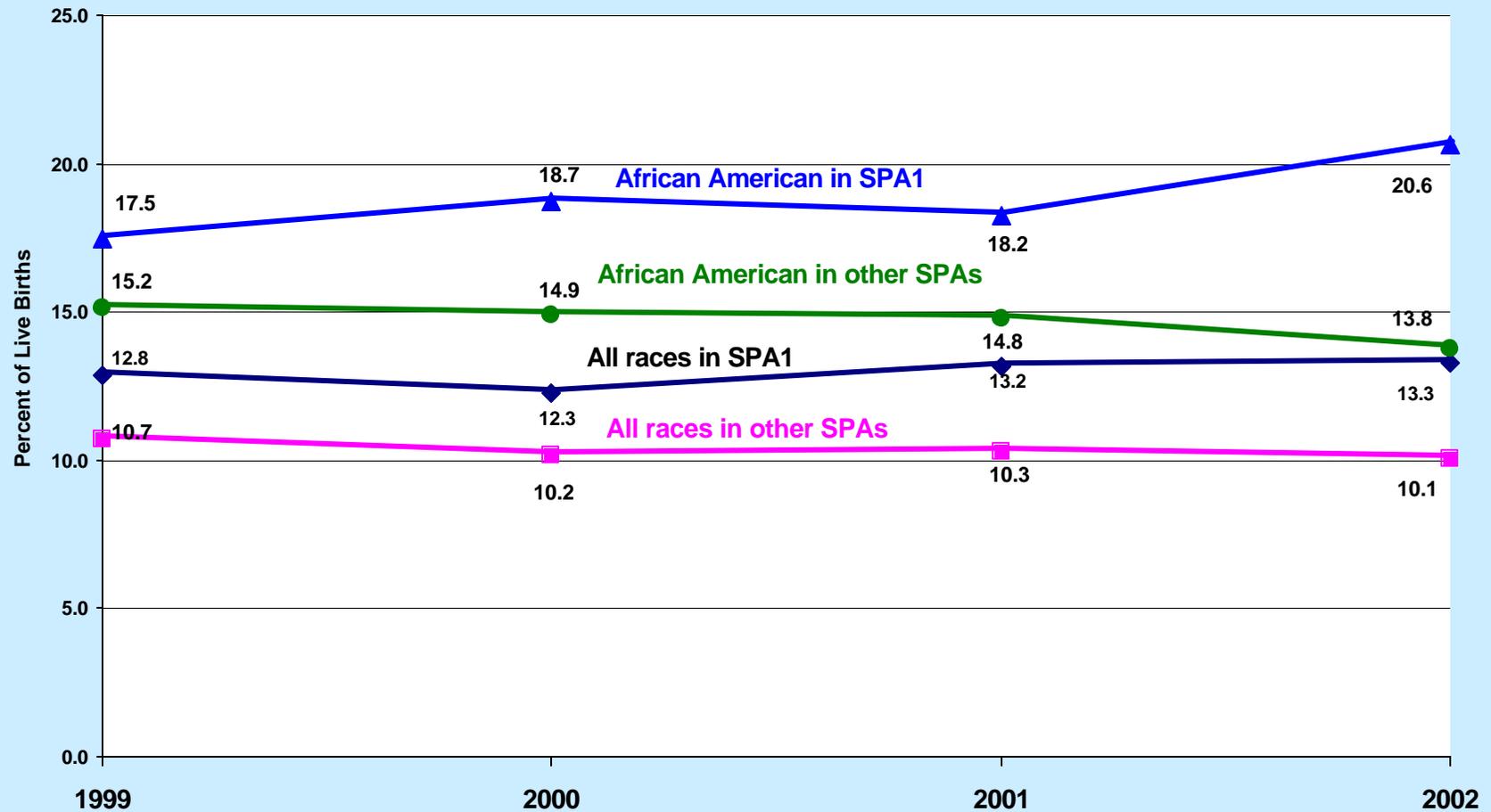
Low Birthweight Birth Rates SPA 1 vs. Other SPAs, 1999-2002



HP2010 Objective: Reduce low birthweight to an incidence of no more than 5.0 percent of live births.

Source: California Department of Health Services, Center for Health Statistics, Vital Statistics, 1999 to 2002

Preterm Birth Rates SPA 1 vs. Other SPAs, 1999-2002



HP2010 Objective: Reduce preterm births to an incidence of no more than 7.6 percent of live births.

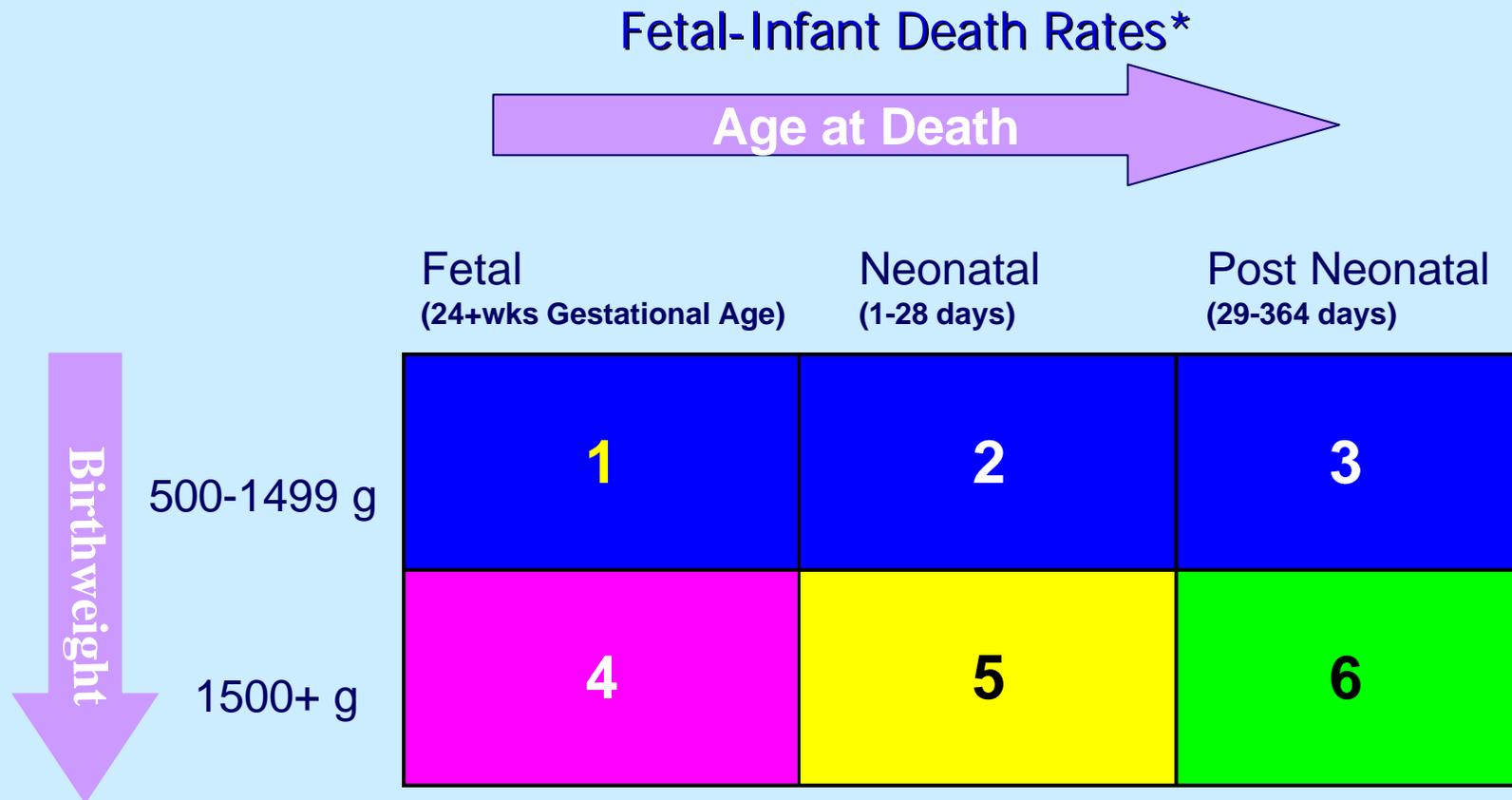
Source: California Department of Health Services, Center for Health Statistics, Vital Statistics, 1998 to 2002

Challenges

- † Fetal and infant death data for LA County are only available up to 2002
- † Causes associated with the observed infant deaths in SPA 1 are unknown

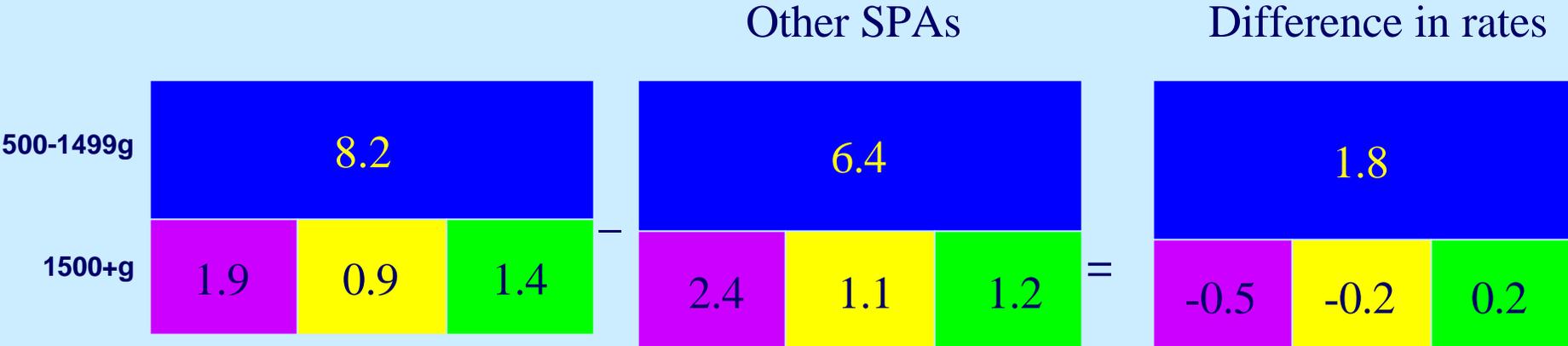
Perinatal Periods of Risk:

An approach to identify causes of fetal-infant death



* Fetal-infant death rate: The total of fetal and infant death per 1000 live birth plus fetal deaths

Infant-Fetal Death Rates SPA 1 vs. other SPAs LAC, 1999-2000



- Extreme low birthweight contributes the most excess mortality
- Improving maternal health has the greatest potential for impact

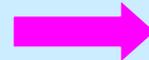
Map Data to Action

Maternal health/
Prematurity (#1,2,3)



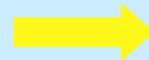
Women's health
Preconception care
Interconception care

Maternal care (#4)



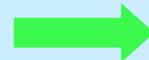
Prenatal care
Referral system
High risk OB care

Newborn care (#5)



Perinatal management
Neonatal care
Newborn follow-up

Infant health (#6)



Sleep position
Breast-feeding
Injury prevention

Maternal, Child & Adolescent Health Programs

- † Black Infant Health
- † Children's Health Outreach Initiatives
- † Comprehensive Perinatal Services Program
- † Family Planning Administration
- † Fetal Infant Mortality Review (FIMR)
- † Nurse Home Visitation
 - Nurse Family Partnership
 - Prenatal Care Guidance
- † Sudden Infant Death Syndrome (SIDS)

Contact information

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